

September 26, 2022

Derek Ingram
Loureiro Engineering Associates, LLC
11171 Forest Haven Road
Festus, MO 63028
TEL: (314) 609-3065
FAX:



Illinois	100226
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: Ameren Huster Road

WorkOrder: 22091260

Dear Derek Ingram:

TEKLAB, INC received 5 samples on 9/20/2022 1:19:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Elizabeth A. Hurley
Director of Customer Service
(618)344-1004 ex 33
ehurley@teklabinc.com



Report Contents

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091260

Client Project: Ameren Huster Road

Report Date: 26-Sep-22

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Client: Loureiro Engineering Associates, LLC

Work Order: 22091260

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Report Date: 26-Sep-22

Abbr Definition

* Analytes on report marked with an asterisk are not NELAP accredited

CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.

CRQL A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.

DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.

DNI Did not ignite

DUP Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.

ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.

IDPH IL Dept. of Public Health

LCS Laboratory control sample is a sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.

LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MBLK Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.

MDL "The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."

MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).

MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MW Molecular weight

NC Data is not acceptable for compliance purposes

ND Not Detected at the Reporting Limit

NELAP NELAP Accredited

PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.

RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.

RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).

SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.

Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.

TIC Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"

TNTC Too numerous to count (> 200 CFU)

Client: Loureiro Engineering Associates, LLC

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Qualifiers

- # - Unknown hydrocarbon
- C - RL shown is a Client Requested Quantitation Limit
- H - Holding times exceeded
- J - Analyte detected below quantitation limits
- ND - Not Detected at the Reporting Limit
- S - Spike Recovery outside recovery limits
- X - Value exceeds Maximum Contaminant Level
- B - Analyte detected in associated Method Blank
- E - Value above quantitation range
- I - Associated internal standard was outside method criteria
- M - Manual Integration used to determine area response
- R - RPD outside accepted recovery limits
- T - TIC(Tentatively identified compound)

Client: Loureiro Engineering Associates, LLC

Work Order: 22091260

Client Project: Ameren Huster Road

Report Date: 26-Sep-22

Cooler Receipt Temp: 3.4 °C

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425

Phone (618) 344-1004

Fax (618) 344-1005

Email jhriley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415

Phone (217) 698-1004

Fax (217) 698-1005

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Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214

Phone (913) 541-1998

Fax (913) 541-1998

Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425

Phone (618) 344-1004

Fax (618) 344-1005

Email EHurley@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515

Phone (630) 324-6855

Fax

Email arenner@teklabinc.com



Accreditations

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091260

Client Project: Ameren Huster Road

Report Date: 26-Sep-22

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2023	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2023	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2023	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2023	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2023	Collinsville
Arkansas	ADEQ	88-0966		3/14/2023	Collinsville
Illinois	IDPH	17584		5/31/2023	Collinsville
Iowa	IDNR	430		6/1/2024	Collinsville
Kentucky	UST	0073		1/31/2023	Collinsville
Missouri	MDNR	00930		5/31/2023	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville

Client: Loureiro Engineering Associates, LLC

Work Order: 22091260

Client Project: Ameren Huster Road

Report Date: 26-Sep-22

Lab ID: 22091260-001

Client Sample ID: PZ-12

Matrix: GROUNDWATER

Collection Date: 09/19/2022 12:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1,2-Tetrachloroethane	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 19:19	197803
1,1,1-Trichloroethane	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 19:19	197803
1,1,2,2-Tetrachloroethane	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 19:19	197803
1,1,2-Trichloro-1,2,2-trifluoroethane	*	0.4	5.0		ND	µg/L	1	09/20/2022 19:19	197803
1,1,2-Trichloroethane	NELAP	0.1	0.5		ND	µg/L	1	09/20/2022 19:19	197803
1,1-Dichloro-2-propanone	*	2.7	30.0		ND	µg/L	1	09/20/2022 19:19	197803
1,1-Dichloroethane	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 19:19	197803
1,1-Dichloroethene	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 19:19	197803
1,1-Dichloropropene	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 19:19	197803
1,2,3-Trichlorobenzene	NELAP	0.2	2.0		ND	µg/L	1	09/20/2022 19:19	197803
1,2,3-Trichloropropane	NELAP	0.2	2.0		ND	µg/L	1	09/20/2022 19:19	197803
1,2,3-Trimethylbenzene	*	0.1	2.0		ND	µg/L	1	09/20/2022 19:19	197803
1,2,4-Trichlorobenzene	NELAP	0.2	2.0		ND	µg/L	1	09/20/2022 19:19	197803
1,2,4-Trimethylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 19:19	197803
1,2-Dibromo-3-chloropropane	NELAP	0.3	2.0		ND	µg/L	1	09/20/2022 19:19	197803
1,2-Dibromoethane	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 19:19	197803
1,2-Dichlorobenzene	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 19:19	197803
1,2-Dichloroethane	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 19:19	197803
1,2-Dichloropropane	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 19:19	197803
1,3,5-Trimethylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 19:19	197803
1,3-Dichlorobenzene	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 19:19	197803
1,3-Dichloropropane	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 19:19	197803
1,4-Dichlorobenzene	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 19:19	197803
1-Chlorobutane	NELAP	0.1	5.0		ND	µg/L	1	09/20/2022 19:19	197803
2,2-Dichloropropane	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 19:19	197803
2-Butanone	NELAP	0.4	10.0		ND	µg/L	1	09/20/2022 19:19	197803
2-Chloroethyl vinyl ether	NELAP	0.4	5.0		ND	µg/L	1	09/20/2022 19:19	197803
2-Chlorotoluene	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 19:19	197803
2-Hexanone	NELAP	0.4	10.0		ND	µg/L	1	09/20/2022 19:19	197803
2-Nitropropane	NELAP	1.1	10.0		ND	µg/L	1	09/20/2022 19:19	197803
4-Chlorotoluene	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 19:19	197803
4-Methyl-2-pentanone	NELAP	0.4	10.0		ND	µg/L	1	09/20/2022 19:19	197803
Acetone	NELAP	2.4	10	J	2.8	µg/L	1	09/20/2022 19:19	197803
Acetonitrile	NELAP	1.4	10.0		ND	µg/L	1	09/20/2022 19:19	197803
Acrolein	NELAP	4.4	20.0		ND	µg/L	1	09/20/2022 19:19	197803
Acrylonitrile	NELAP	0.2	5.0		ND	µg/L	1	09/20/2022 19:19	197803
Allyl chloride	NELAP	0.2	5.0		ND	µg/L	1	09/20/2022 19:19	197803
Benzene	NELAP	0.1	0.5		ND	µg/L	1	09/20/2022 19:19	197803
Bromobenzene	NELAP	0.2	2.0		ND	µg/L	1	09/20/2022 19:19	197803
Bromochloromethane	NELAP	0.2	2.0		ND	µg/L	1	09/20/2022 19:19	197803
Bromodichloromethane	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 19:19	197803
Bromoform	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 19:19	197803
Bromomethane	NELAP	1.0	5.0		ND	µg/L	1	09/20/2022 19:19	197803
Carbon disulfide	NELAP	0.7	2.0		ND	µg/L	1	09/20/2022 19:19	197803
Carbon tetrachloride	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 19:19	197803
Chlorobenzene	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 19:19	197803
Chloroethane	NELAP	0.2	2.0		ND	µg/L	1	09/20/2022 19:19	197803



Laboratory Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091260

Client Project: Ameren Huster Road

Report Date: 26-Sep-22

Lab ID: 22091260-001

Client Sample ID: PZ-12

Matrix: GROUNDWATER

Collection Date: 09/19/2022 12:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Chloroform	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 19:19	197803
Chloromethane	NELAP	0.2	5.0		ND	µg/L	1	09/20/2022 19:19	197803
Chloroprene	NELAP	0.1	5.0		ND	µg/L	1	09/20/2022 19:19	197803
cis-1,2-Dichloroethene	NELAP	0.2	2.0		ND	µg/L	1	09/20/2022 19:19	197803
cis-1,3-Dichloropropene	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 19:19	197803
cis-1,4-Dichloro-2-butene	NELAP	0.2	2.0		ND	µg/L	1	09/20/2022 19:19	197803
Cyclohexanone	*	3.8	20.0		ND	µg/L	1	09/20/2022 19:19	197803
Dibromochloromethane	NELAP	0.2	2.0		ND	µg/L	1	09/20/2022 19:19	197803
Dibromomethane	NELAP	0.2	2.0		ND	µg/L	1	09/20/2022 19:19	197803
Dichlorodifluoromethane	NELAP	0.2	2.0		ND	µg/L	1	09/20/2022 19:19	197803
Ethyl acetate	NELAP	2.6	10.0		ND	µg/L	1	09/20/2022 19:19	197803
Ethyl ether	NELAP	0.2	5.0		ND	µg/L	1	09/20/2022 19:19	197803
Ethyl methacrylate	NELAP	0.3	5.0		ND	µg/L	1	09/20/2022 19:19	197803
Ethylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 19:19	197803
Hexachlorobutadiene	NELAP	0.3	5.0		ND	µg/L	1	09/20/2022 19:19	197803
Hexachloroethane	NELAP	0.1	5.0		ND	µg/L	1	09/20/2022 19:19	197803
Iodomethane	NELAP	2.6	5.0		ND	µg/L	1	09/20/2022 19:19	197803
Isopropylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 19:19	197803
m,p-Xylenes	NELAP	0.2	2.0		ND	µg/L	1	09/20/2022 19:19	197803
Methacrylonitrile	NELAP	0.2	5.0		ND	µg/L	1	09/20/2022 19:19	197803
Methyl Methacrylate	NELAP	0.2	5.0		ND	µg/L	1	09/20/2022 19:19	197803
Methyl tert-butyl ether	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 19:19	197803
Methylacrylate	NELAP	0.2	5.0		ND	µg/L	1	09/20/2022 19:19	197803
Methylene chloride	NELAP	0.9	2.0		ND	µg/L	1	09/20/2022 19:19	197803
Naphthalene	NELAP	0.3	5.0		ND	µg/L	1	09/20/2022 19:19	197803
n-Butyl acetate	*	0.3	2.0		ND	µg/L	1	09/20/2022 19:19	197803
n-Butylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 19:19	197803
n-Heptane	*	0.2	5.0		ND	µg/L	1	09/20/2022 19:19	197803
n-Hexane	*	1.4	5.0		ND	µg/L	1	09/20/2022 19:19	197803
Nitrobenzene	NELAP	10.0	50.0		ND	µg/L	1	09/20/2022 19:19	197803
n-Propylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 19:19	197803
o-Xylene	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 19:19	197803
Pentachloroethane	NELAP	0.4	5.0		ND	µg/L	1	09/20/2022 19:19	197803
p-Isopropyltoluene	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 19:19	197803
Propionitrile	NELAP	0.9	10.0		ND	µg/L	1	09/20/2022 19:19	197803
sec-Butylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 19:19	197803
Styrene	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 19:19	197803
tert-Butylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 19:19	197803
Tetrachloroethene	NELAP	0.1	0.5		ND	µg/L	1	09/20/2022 19:19	197803
Tetrahydrofuran	NELAP	0.8	5.0		ND	µg/L	1	09/20/2022 19:19	197803
Toluene	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 19:19	197803
trans-1,2-Dichloroethene	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 19:19	197803
trans-1,3-Dichloropropene	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 19:19	197803
trans-1,4-Dichloro-2-butene	NELAP	0.2	2.0		ND	µg/L	1	09/20/2022 19:19	197803
Trichloroethene	NELAP	0.2	2.0		ND	µg/L	1	09/20/2022 19:19	197803
Trichlorofluoromethane	NELAP	0.1	5.0		ND	µg/L	1	09/20/2022 19:19	197803
Vinyl acetate	NELAP	0.3	5.0		ND	µg/L	1	09/20/2022 19:19	197803



Laboratory Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091260

Client Project: Ameren Huster Road

Report Date: 26-Sep-22

Lab ID: 22091260-001

Client Sample ID: PZ-12

Matrix: GROUNDWATER

Collection Date: 09/19/2022 12:00

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Vinyl chloride	NELAP	0.1	1.0		ND	µg/L	1	09/20/2022 19:19	197803
Surr: 1,2-Dichloroethane-d4	*	0	80-120		96.4	%REC	1	09/20/2022 19:19	197803
Surr: 4-Bromofluorobenzene	*	0	80-120		96.2	%REC	1	09/20/2022 19:19	197803
Surr: Dibromofluoromethane	*	0	80-120		100.9	%REC	1	09/20/2022 19:19	197803
Surr: Toluene-d8	*	0	80-120		96.1	%REC	1	09/20/2022 19:19	197803

Client: Loureiro Engineering Associates, LLC

Work Order: 22091260

Client Project: Ameren Huster Road

Report Date: 26-Sep-22

Lab ID: 22091260-002

Client Sample ID: PZ-11

Matrix: GROUNDWATER

Collection Date: 09/19/2022 12:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1,2-Tetrachloroethane	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 4:37	197856
1,1,1-Trichloroethane	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 4:37	197856
1,1,2,2-Tetrachloroethane	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 4:37	197856
1,1,2-Trichloro-1,2,2-trifluoroethane	*	0.4	5.0		ND	µg/L	1	09/21/2022 4:37	197856
1,1,2-Trichloroethane	NELAP	0.1	0.5		ND	µg/L	1	09/21/2022 4:37	197856
1,1-Dichloro-2-propanone	*	2.7	30.0		ND	µg/L	1	09/21/2022 4:37	197856
1,1-Dichloroethane	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 4:37	197856
1,1-Dichloroethene	NELAP	0.1	2.0	J	0.4	µg/L	1	09/21/2022 4:37	197856
1,1-Dichloropropene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 4:37	197856
1,2,3-Trichlorobenzene	NELAP	0.2	2.0		ND	µg/L	1	09/21/2022 4:37	197856
1,2,3-Trichloropropane	NELAP	0.2	2.0		ND	µg/L	1	09/21/2022 4:37	197856
1,2,3-Trimethylbenzene	*	0.1	2.0		ND	µg/L	1	09/21/2022 4:37	197856
1,2,4-Trichlorobenzene	NELAP	0.2	2.0		ND	µg/L	1	09/21/2022 4:37	197856
1,2,4-Trimethylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 4:37	197856
1,2-Dibromo-3-chloropropane	NELAP	0.3	2.0		ND	µg/L	1	09/21/2022 4:37	197856
1,2-Dibromoethane	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 4:37	197856
1,2-Dichlorobenzene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 4:37	197856
1,2-Dichloroethane	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 4:37	197856
1,2-Dichloropropane	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 4:37	197856
1,3,5-Trimethylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 4:37	197856
1,3-Dichlorobenzene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 4:37	197856
1,3-Dichloropropane	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 4:37	197856
1,4-Dichlorobenzene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 4:37	197856
1-Chlorobutane	NELAP	0.1	5.0		ND	µg/L	1	09/21/2022 4:37	197856
2,2-Dichloropropane	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 4:37	197856
2-Butanone	NELAP	0.4	10.0		ND	µg/L	1	09/21/2022 4:37	197856
2-Chloroethyl vinyl ether	NELAP	0.4	5.0		ND	µg/L	1	09/21/2022 4:37	197856
2-Chlorotoluene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 4:37	197856
2-Hexanone	NELAP	0.4	10.0		ND	µg/L	1	09/21/2022 4:37	197856
2-Nitropropane	NELAP	1.1	10.0		ND	µg/L	1	09/21/2022 4:37	197856
4-Chlorotoluene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 4:37	197856
4-Methyl-2-pentanone	NELAP	0.4	10.0		ND	µg/L	1	09/21/2022 4:37	197856
Acetone	NELAP	2.4	10.0		ND	µg/L	1	09/21/2022 4:37	197856
Acetonitrile	NELAP	1.4	10.0		ND	µg/L	1	09/21/2022 4:37	197856
Acrolein	NELAP	4.4	20.0		ND	µg/L	1	09/21/2022 4:37	197856
Acrylonitrile	NELAP	0.2	5.0		ND	µg/L	1	09/21/2022 4:37	197856
Allyl chloride	NELAP	0.2	5.0		ND	µg/L	1	09/21/2022 4:37	197856
Benzene	NELAP	0.1	0.5		ND	µg/L	1	09/21/2022 4:37	197856
Bromobenzene	NELAP	0.2	2.0		ND	µg/L	1	09/21/2022 4:37	197856
Bromochloromethane	NELAP	0.2	2.0		ND	µg/L	1	09/21/2022 4:37	197856
Bromodichloromethane	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 4:37	197856
Bromoform	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 4:37	197856
Bromomethane	NELAP	1.0	5.0		ND	µg/L	1	09/21/2022 4:37	197856
Carbon disulfide	NELAP	0.7	2.0		ND	µg/L	1	09/21/2022 4:37	197856
Carbon tetrachloride	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 4:37	197856
Chlorobenzene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 4:37	197856
Chloroethane	NELAP	0.2	2.0		ND	µg/L	1	09/21/2022 4:37	197856

Client: Loureiro Engineering Associates, LLC

Work Order: 22091260

Client Project: Ameren Huster Road

Report Date: 26-Sep-22

Lab ID: 22091260-002

Client Sample ID: PZ-11

Matrix: GROUNDWATER

Collection Date: 09/19/2022 12:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Chloroform	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 4:37	197856
Chloromethane	NELAP	0.2	5.0		ND	µg/L	1	09/21/2022 4:37	197856
Chloroprene	NELAP	0.1	5.0		ND	µg/L	1	09/21/2022 4:37	197856
cis-1,2-Dichloroethene	NELAP	0.2	2.0		146	µg/L	1	09/21/2022 4:37	197856
cis-1,3-Dichloropropene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 4:37	197856
cis-1,4-Dichloro-2-butene	NELAP	0.2	2.0		ND	µg/L	1	09/21/2022 4:37	197856
Cyclohexanone	*	3.8	20.0		ND	µg/L	1	09/21/2022 4:37	197856
Dibromochloromethane	NELAP	0.2	2.0		ND	µg/L	1	09/21/2022 4:37	197856
Dibromomethane	NELAP	0.2	2.0		ND	µg/L	1	09/21/2022 4:37	197856
Dichlorodifluoromethane	NELAP	0.2	2.0		ND	µg/L	1	09/21/2022 4:37	197856
Ethyl acetate	NELAP	2.6	10.0		ND	µg/L	1	09/21/2022 4:37	197856
Ethyl ether	NELAP	0.2	5.0		ND	µg/L	1	09/21/2022 4:37	197856
Ethyl methacrylate	NELAP	0.3	5.0		ND	µg/L	1	09/21/2022 4:37	197856
Ethylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 4:37	197856
Hexachlorobutadiene	NELAP	0.3	5.0		ND	µg/L	1	09/21/2022 4:37	197856
Hexachloroethane	NELAP	0.1	5.0		ND	µg/L	1	09/21/2022 4:37	197856
Iodomethane	NELAP	2.6	5.0		ND	µg/L	1	09/21/2022 4:37	197856
Isopropylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 4:37	197856
m,p-Xylenes	NELAP	0.2	2.0		ND	µg/L	1	09/21/2022 4:37	197856
Methacrylonitrile	NELAP	0.2	5.0		ND	µg/L	1	09/21/2022 4:37	197856
Methyl Methacrylate	NELAP	0.2	5.0		ND	µg/L	1	09/21/2022 4:37	197856
Methyl tert-butyl ether	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 4:37	197856
Methylacrylate	NELAP	0.2	5.0		ND	µg/L	1	09/21/2022 4:37	197856
Methylene chloride	NELAP	0.9	2.0		ND	µg/L	1	09/21/2022 4:37	197856
Naphthalene	NELAP	0.3	5.0		ND	µg/L	1	09/21/2022 4:37	197856
n-Butyl acetate	*	0.3	2.0		ND	µg/L	1	09/21/2022 4:37	197856
n-Butylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 4:37	197856
n-Heptane	*	0.2	5.0		ND	µg/L	1	09/21/2022 4:37	197856
n-Hexane	*	1.4	5.0		ND	µg/L	1	09/21/2022 4:37	197856
Nitrobenzene	NELAP	10.0	50.0		ND	µg/L	1	09/21/2022 4:37	197856
n-Propylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 4:37	197856
o-Xylene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 4:37	197856
Pentachloroethane	NELAP	0.4	5.0		ND	µg/L	1	09/21/2022 4:37	197856
p-Isopropyltoluene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 4:37	197856
Propionitrile	NELAP	0.9	10.0		ND	µg/L	1	09/21/2022 4:37	197856
sec-Butylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 4:37	197856
Styrene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 4:37	197856
tert-Butylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 4:37	197856
Tetrachloroethene	NELAP	0.1	0.5		ND	µg/L	1	09/21/2022 4:37	197856
Tetrahydrofuran	NELAP	0.8	5.0		ND	µg/L	1	09/21/2022 4:37	197856
Toluene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 4:37	197856
trans-1,2-Dichloroethene	NELAP	0.1	2.0	J	0.3	µg/L	1	09/21/2022 4:37	197856
trans-1,3-Dichloropropene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 4:37	197856
trans-1,4-Dichloro-2-butene	NELAP	0.2	2.0		ND	µg/L	1	09/21/2022 4:37	197856
Trichloroethene	NELAP	0.2	2.0		ND	µg/L	1	09/21/2022 4:37	197856
Trichlorofluoromethane	NELAP	0.1	5.0		ND	µg/L	1	09/21/2022 4:37	197856
Vinyl acetate	NELAP	0.3	5.0		ND	µg/L	1	09/21/2022 4:37	197856



Laboratory Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091260

Client Project: Ameren Huster Road

Report Date: 26-Sep-22

Lab ID: 22091260-002

Client Sample ID: PZ-11

Matrix: GROUNDWATER

Collection Date: 09/19/2022 12:30

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Vinyl chloride	NELAP	0.1	1.0		63.6	µg/L	1	09/21/2022 4:37	197856
Surr: 1,2-Dichloroethane-d4	*	0	80-120		94.4	%REC	1	09/21/2022 4:37	197856
Surr: 4-Bromofluorobenzene	*	0	80-120		93.7	%REC	1	09/21/2022 4:37	197856
Surr: Dibromofluoromethane	*	0	80-120		101.9	%REC	1	09/21/2022 4:37	197856
Surr: Toluene-d8	*	0	80-120		96.0	%REC	1	09/21/2022 4:37	197856

Client: Loureiro Engineering Associates, LLC

Work Order: 22091260

Client Project: Ameren Huster Road

Report Date: 26-Sep-22

Lab ID: 22091260-003

Client Sample ID: PZ-3

Matrix: GROUNDWATER

Collection Date: 09/19/2022 13:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1,2-Tetrachloroethane	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:01	197856
1,1,1-Trichloroethane	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:01	197856
1,1,2,2-Tetrachloroethane	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:01	197856
1,1,2-Trichloro-1,2,2-trifluoroethane	*	0.4	5.0		ND	µg/L	1	09/21/2022 5:01	197856
1,1,2-Trichloroethane	NELAP	0.1	0.5		ND	µg/L	1	09/21/2022 5:01	197856
1,1-Dichloro-2-propanone	*	2.7	30.0		ND	µg/L	1	09/21/2022 5:01	197856
1,1-Dichloroethane	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:01	197856
1,1-Dichloroethene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:01	197856
1,1-Dichloropropene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:01	197856
1,2,3-Trichlorobenzene	NELAP	0.2	2.0		ND	µg/L	1	09/21/2022 5:01	197856
1,2,3-Trichloropropane	NELAP	0.2	2.0		ND	µg/L	1	09/21/2022 5:01	197856
1,2,3-Trimethylbenzene	*	0.1	2.0		ND	µg/L	1	09/21/2022 5:01	197856
1,2,4-Trichlorobenzene	NELAP	0.2	2.0		ND	µg/L	1	09/21/2022 5:01	197856
1,2,4-Trimethylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:01	197856
1,2-Dibromo-3-chloropropane	NELAP	0.3	2.0		ND	µg/L	1	09/21/2022 5:01	197856
1,2-Dibromoethane	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:01	197856
1,2-Dichlorobenzene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:01	197856
1,2-Dichloroethane	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:01	197856
1,2-Dichloropropane	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:01	197856
1,3,5-Trimethylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:01	197856
1,3-Dichlorobenzene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:01	197856
1,3-Dichloropropane	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:01	197856
1,4-Dichlorobenzene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:01	197856
1-Chlorobutane	NELAP	0.1	5.0		ND	µg/L	1	09/21/2022 5:01	197856
2,2-Dichloropropane	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:01	197856
2-Butanone	NELAP	0.4	10.0		ND	µg/L	1	09/21/2022 5:01	197856
2-Chloroethyl vinyl ether	NELAP	0.4	5.0		ND	µg/L	1	09/21/2022 5:01	197856
2-Chlorotoluene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:01	197856
2-Hexanone	NELAP	0.4	10.0		ND	µg/L	1	09/21/2022 5:01	197856
2-Nitropropane	NELAP	1.1	10.0		ND	µg/L	1	09/21/2022 5:01	197856
4-Chlorotoluene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:01	197856
4-Methyl-2-pentanone	NELAP	0.4	10.0		ND	µg/L	1	09/21/2022 5:01	197856
Acetone	NELAP	2.4	10.0		ND	µg/L	1	09/21/2022 5:01	197856
Acetonitrile	NELAP	1.4	10.0		ND	µg/L	1	09/21/2022 5:01	197856
Acrolein	NELAP	4.4	20.0		ND	µg/L	1	09/21/2022 5:01	197856
Acrylonitrile	NELAP	0.2	5.0		ND	µg/L	1	09/21/2022 5:01	197856
Allyl chloride	NELAP	0.2	5.0		ND	µg/L	1	09/21/2022 5:01	197856
Benzene	NELAP	0.1	0.5		ND	µg/L	1	09/21/2022 5:01	197856
Bromobenzene	NELAP	0.2	2.0		ND	µg/L	1	09/21/2022 5:01	197856
Bromochloromethane	NELAP	0.2	2.0		ND	µg/L	1	09/21/2022 5:01	197856
Bromodichloromethane	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:01	197856
Bromoform	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:01	197856
Bromomethane	NELAP	1.0	5.0		ND	µg/L	1	09/21/2022 5:01	197856
Carbon disulfide	NELAP	0.7	2.0		ND	µg/L	1	09/21/2022 5:01	197856
Carbon tetrachloride	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:01	197856
Chlorobenzene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:01	197856
Chloroethane	NELAP	0.2	2.0		ND	µg/L	1	09/21/2022 5:01	197856



Laboratory Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091260

Client Project: Ameren Huster Road

Report Date: 26-Sep-22

Lab ID: 22091260-003

Client Sample ID: PZ-3

Matrix: GROUNDWATER

Collection Date: 09/19/2022 13:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Chloroform	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:01	197856
Chloromethane	NELAP	0.2	5.0		ND	µg/L	1	09/21/2022 5:01	197856
Chloroprene	NELAP	0.1	5.0		ND	µg/L	1	09/21/2022 5:01	197856
cis-1,2-Dichloroethene	NELAP	0.2	2.0		4.1	µg/L	1	09/21/2022 5:01	197856
cis-1,3-Dichloropropene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:01	197856
cis-1,4-Dichloro-2-butene	NELAP	0.2	2.0		ND	µg/L	1	09/21/2022 5:01	197856
Cyclohexanone	*	3.8	20.0		ND	µg/L	1	09/21/2022 5:01	197856
Dibromochloromethane	NELAP	0.2	2.0		ND	µg/L	1	09/21/2022 5:01	197856
Dibromomethane	NELAP	0.2	2.0		ND	µg/L	1	09/21/2022 5:01	197856
Dichlorodifluoromethane	NELAP	0.2	2.0		ND	µg/L	1	09/21/2022 5:01	197856
Ethyl acetate	NELAP	2.6	10.0		ND	µg/L	1	09/21/2022 5:01	197856
Ethyl ether	NELAP	0.2	5.0		ND	µg/L	1	09/21/2022 5:01	197856
Ethyl methacrylate	NELAP	0.3	5.0		ND	µg/L	1	09/21/2022 5:01	197856
Ethylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:01	197856
Hexachlorobutadiene	NELAP	0.3	5.0		ND	µg/L	1	09/21/2022 5:01	197856
Hexachloroethane	NELAP	0.1	5.0		ND	µg/L	1	09/21/2022 5:01	197856
Iodomethane	NELAP	2.6	5.0		ND	µg/L	1	09/21/2022 5:01	197856
Isopropylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:01	197856
m,p-Xylenes	NELAP	0.2	2.0		ND	µg/L	1	09/21/2022 5:01	197856
Methacrylonitrile	NELAP	0.2	5.0		ND	µg/L	1	09/21/2022 5:01	197856
Methyl Methacrylate	NELAP	0.2	5.0		ND	µg/L	1	09/21/2022 5:01	197856
Methyl tert-butyl ether	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:01	197856
Methylacrylate	NELAP	0.2	5.0		ND	µg/L	1	09/21/2022 5:01	197856
Methylene chloride	NELAP	0.9	2.0		ND	µg/L	1	09/21/2022 5:01	197856
Naphthalene	NELAP	0.3	5.0		ND	µg/L	1	09/21/2022 5:01	197856
n-Butyl acetate	*	0.3	2.0		ND	µg/L	1	09/21/2022 5:01	197856
n-Butylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:01	197856
n-Heptane	*	0.2	5.0		ND	µg/L	1	09/21/2022 5:01	197856
n-Hexane	*	1.4	5.0		ND	µg/L	1	09/21/2022 5:01	197856
Nitrobenzene	NELAP	10.0	50.0		ND	µg/L	1	09/21/2022 5:01	197856
n-Propylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:01	197856
o-Xylene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:01	197856
Pentachloroethane	NELAP	0.4	5.0		ND	µg/L	1	09/21/2022 5:01	197856
p-Isopropyltoluene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:01	197856
Propionitrile	NELAP	0.9	10.0		ND	µg/L	1	09/21/2022 5:01	197856
sec-Butylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:01	197856
Styrene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:01	197856
tert-Butylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:01	197856
Tetrachloroethene	NELAP	0.1	0.5		ND	µg/L	1	09/21/2022 5:01	197856
Tetrahydrofuran	NELAP	0.8	5.0		ND	µg/L	1	09/21/2022 5:01	197856
Toluene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:01	197856
trans-1,2-Dichloroethene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:01	197856
trans-1,3-Dichloropropene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:01	197856
trans-1,4-Dichloro-2-butene	NELAP	0.2	2.0		ND	µg/L	1	09/21/2022 5:01	197856
Trichloroethene	NELAP	0.2	2.0		ND	µg/L	1	09/21/2022 5:01	197856
Trichlorofluoromethane	NELAP	0.1	5.0		ND	µg/L	1	09/21/2022 5:01	197856
Vinyl acetate	NELAP	0.3	5.0		ND	µg/L	1	09/21/2022 5:01	197856



Laboratory Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091260

Client Project: Ameren Huster Road

Report Date: 26-Sep-22

Lab ID: 22091260-003

Client Sample ID: PZ-3

Matrix: GROUNDWATER

Collection Date: 09/19/2022 13:10

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Vinyl chloride	NELAP	0.1	1.0		3.4	µg/L	1	09/21/2022 5:01	197856
Surr: 1,2-Dichloroethane-d4	*	0	80-120		93.6	%REC	1	09/21/2022 5:01	197856
Surr: 4-Bromofluorobenzene	*	0	80-120		92.1	%REC	1	09/21/2022 5:01	197856
Surr: Dibromofluoromethane	*	0	80-120		103.4	%REC	1	09/21/2022 5:01	197856
Surr: Toluene-d8	*	0	80-120		96.6	%REC	1	09/21/2022 5:01	197856

Client: Loureiro Engineering Associates, LLC

Work Order: 22091260

Client Project: Ameren Huster Road

Report Date: 26-Sep-22

Lab ID: 22091260-004

Client Sample ID: PZ-2

Matrix: GROUNDWATER

Collection Date: 09/19/2022 13:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1,2-Tetrachloroethane	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:26	197856
1,1,1-Trichloroethane	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:26	197856
1,1,2,2-Tetrachloroethane	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:26	197856
1,1,2-Trichloro-1,2,2-trifluoroethane	*	0.4	5.0		ND	µg/L	1	09/21/2022 5:26	197856
1,1,2-Trichloroethane	NELAP	0.1	0.5		ND	µg/L	1	09/21/2022 5:26	197856
1,1-Dichloro-2-propanone	*	2.7	30.0		ND	µg/L	1	09/21/2022 5:26	197856
1,1-Dichloroethane	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:26	197856
1,1-Dichloroethene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:26	197856
1,1-Dichloropropene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:26	197856
1,2,3-Trichlorobenzene	NELAP	0.2	2.0		ND	µg/L	1	09/21/2022 5:26	197856
1,2,3-Trichloropropane	NELAP	0.2	2.0		ND	µg/L	1	09/21/2022 5:26	197856
1,2,3-Trimethylbenzene	*	0.1	2.0		ND	µg/L	1	09/21/2022 5:26	197856
1,2,4-Trichlorobenzene	NELAP	0.2	2.0		ND	µg/L	1	09/21/2022 5:26	197856
1,2,4-Trimethylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:26	197856
1,2-Dibromo-3-chloropropane	NELAP	0.3	2.0		ND	µg/L	1	09/21/2022 5:26	197856
1,2-Dibromoethane	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:26	197856
1,2-Dichlorobenzene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:26	197856
1,2-Dichloroethane	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:26	197856
1,2-Dichloropropane	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:26	197856
1,3,5-Trimethylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:26	197856
1,3-Dichlorobenzene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:26	197856
1,3-Dichloropropane	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:26	197856
1,4-Dichlorobenzene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:26	197856
1-Chlorobutane	NELAP	0.1	5.0		ND	µg/L	1	09/21/2022 5:26	197856
2,2-Dichloropropane	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:26	197856
2-Butanone	NELAP	0.4	10.0		ND	µg/L	1	09/21/2022 5:26	197856
2-Chloroethyl vinyl ether	NELAP	0.4	5.0		ND	µg/L	1	09/21/2022 5:26	197856
2-Chlorotoluene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:26	197856
2-Hexanone	NELAP	0.4	10.0		ND	µg/L	1	09/21/2022 5:26	197856
2-Nitropropane	NELAP	1.1	10.0		ND	µg/L	1	09/21/2022 5:26	197856
4-Chlorotoluene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:26	197856
4-Methyl-2-pentanone	NELAP	0.4	10.0		ND	µg/L	1	09/21/2022 5:26	197856
Acetone	NELAP	2.4	10.0		ND	µg/L	1	09/21/2022 5:26	197856
Acetonitrile	NELAP	1.4	10.0		ND	µg/L	1	09/21/2022 5:26	197856
Acrolein	NELAP	4.4	20.0		ND	µg/L	1	09/21/2022 5:26	197856
Acrylonitrile	NELAP	0.2	5.0		ND	µg/L	1	09/21/2022 5:26	197856
Allyl chloride	NELAP	0.2	5.0		ND	µg/L	1	09/21/2022 5:26	197856
Benzene	NELAP	0.1	0.5		ND	µg/L	1	09/21/2022 5:26	197856
Bromobenzene	NELAP	0.2	2.0		ND	µg/L	1	09/21/2022 5:26	197856
Bromochloromethane	NELAP	0.2	2.0		ND	µg/L	1	09/21/2022 5:26	197856
Bromodichloromethane	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:26	197856
Bromoform	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:26	197856
Bromomethane	NELAP	1.0	5.0		ND	µg/L	1	09/21/2022 5:26	197856
Carbon disulfide	NELAP	0.7	2.0		ND	µg/L	1	09/21/2022 5:26	197856
Carbon tetrachloride	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:26	197856
Chlorobenzene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:26	197856
Chloroethane	NELAP	0.2	2.0		ND	µg/L	1	09/21/2022 5:26	197856

Client: Loureiro Engineering Associates, LLC

Work Order: 22091260

Client Project: Ameren Huster Road

Report Date: 26-Sep-22

Lab ID: 22091260-004

Client Sample ID: PZ-2

Matrix: GROUNDWATER

Collection Date: 09/19/2022 13:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Chloroform	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:26	197856
Chloromethane	NELAP	0.2	5.0		ND	µg/L	1	09/21/2022 5:26	197856
Chloroprene	NELAP	0.1	5.0		ND	µg/L	1	09/21/2022 5:26	197856
cis-1,2-Dichloroethene	NELAP	0.2	2.0	J	1.4	µg/L	1	09/21/2022 5:26	197856
cis-1,3-Dichloropropene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:26	197856
cis-1,4-Dichloro-2-butene	NELAP	0.2	2.0		ND	µg/L	1	09/21/2022 5:26	197856
Cyclohexanone	*	3.8	20.0		ND	µg/L	1	09/21/2022 5:26	197856
Dibromochloromethane	NELAP	0.2	2.0		ND	µg/L	1	09/21/2022 5:26	197856
Dibromomethane	NELAP	0.2	2.0		ND	µg/L	1	09/21/2022 5:26	197856
Dichlorodifluoromethane	NELAP	0.2	2.0		ND	µg/L	1	09/21/2022 5:26	197856
Ethyl acetate	NELAP	2.6	10.0		ND	µg/L	1	09/21/2022 5:26	197856
Ethyl ether	NELAP	0.2	5.0		ND	µg/L	1	09/21/2022 5:26	197856
Ethyl methacrylate	NELAP	0.3	5.0		ND	µg/L	1	09/21/2022 5:26	197856
Ethylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:26	197856
Hexachlorobutadiene	NELAP	0.3	5.0		ND	µg/L	1	09/21/2022 5:26	197856
Hexachloroethane	NELAP	0.1	5.0		ND	µg/L	1	09/21/2022 5:26	197856
Iodomethane	NELAP	2.6	5.0		ND	µg/L	1	09/21/2022 5:26	197856
Isopropylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:26	197856
m,p-Xylenes	NELAP	0.2	2.0		ND	µg/L	1	09/21/2022 5:26	197856
Methacrylonitrile	NELAP	0.2	5.0		ND	µg/L	1	09/21/2022 5:26	197856
Methyl Methacrylate	NELAP	0.2	5.0		ND	µg/L	1	09/21/2022 5:26	197856
Methyl tert-butyl ether	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:26	197856
Methylacrylate	NELAP	0.2	5.0		ND	µg/L	1	09/21/2022 5:26	197856
Methylene chloride	NELAP	0.9	2.0		ND	µg/L	1	09/21/2022 5:26	197856
Naphthalene	NELAP	0.3	5.0		ND	µg/L	1	09/21/2022 5:26	197856
n-Butyl acetate	*	0.3	2.0		ND	µg/L	1	09/21/2022 5:26	197856
n-Butylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:26	197856
n-Heptane	*	0.2	5.0		ND	µg/L	1	09/21/2022 5:26	197856
n-Hexane	*	1.4	5.0		ND	µg/L	1	09/21/2022 5:26	197856
Nitrobenzene	NELAP	10.0	50.0		ND	µg/L	1	09/21/2022 5:26	197856
n-Propylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:26	197856
o-Xylene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:26	197856
Pentachloroethane	NELAP	0.4	5.0		ND	µg/L	1	09/21/2022 5:26	197856
p-Isopropyltoluene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:26	197856
Propionitrile	NELAP	0.9	10.0		ND	µg/L	1	09/21/2022 5:26	197856
sec-Butylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:26	197856
Styrene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:26	197856
tert-Butylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:26	197856
Tetrachloroethene	NELAP	0.1	0.5		ND	µg/L	1	09/21/2022 5:26	197856
Tetrahydrofuran	NELAP	0.8	5.0		ND	µg/L	1	09/21/2022 5:26	197856
Toluene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:26	197856
trans-1,2-Dichloroethene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:26	197856
trans-1,3-Dichloropropene	NELAP	0.1	2.0		ND	µg/L	1	09/21/2022 5:26	197856
trans-1,4-Dichloro-2-butene	NELAP	0.2	2.0		ND	µg/L	1	09/21/2022 5:26	197856
Trichloroethene	NELAP	0.2	2.0		ND	µg/L	1	09/21/2022 5:26	197856
Trichlorofluoromethane	NELAP	0.1	5.0		ND	µg/L	1	09/21/2022 5:26	197856
Vinyl acetate	NELAP	0.3	5.0		ND	µg/L	1	09/21/2022 5:26	197856



Laboratory Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091260

Client Project: Ameren Huster Road

Report Date: 26-Sep-22

Lab ID: 22091260-004

Client Sample ID: PZ-2

Matrix: GROUNDWATER

Collection Date: 09/19/2022 13:50

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Vinyl chloride	NELAP	0.1	1.0		ND	µg/L	1	09/21/2022 5:26	197856
Surr: 1,2-Dichloroethane-d4	*	0	80-120		93.5	%REC	1	09/21/2022 5:26	197856
Surr: 4-Bromofluorobenzene	*	0	80-120		92.5	%REC	1	09/21/2022 5:26	197856
Surr: Dibromofluoromethane	*	0	80-120		103.1	%REC	1	09/21/2022 5:26	197856
Surr: Toluene-d8	*	0	80-120		95.8	%REC	1	09/21/2022 5:26	197856

Client: Loureiro Engineering Associates, LLC

Work Order: 22091260

Client Project: Ameren Huster Road

Report Date: 26-Sep-22

Lab ID: 22091260-005

Client Sample ID: Trip Blank

Matrix: TRIP BLANK

Collection Date: 09/20/2022 13:19

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
1,1,1,2-Tetrachloroethane	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 18:54	197803
1,1,1-Trichloroethane	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 18:54	197803
1,1,2,2-Tetrachloroethane	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 18:54	197803
1,1,2-Trichloro-1,2,2-trifluoroethane	*	0.4	5.0		ND	µg/L	1	09/20/2022 18:54	197803
1,1,2-Trichloroethane	NELAP	0.1	0.5		ND	µg/L	1	09/20/2022 18:54	197803
1,1-Dichloro-2-propanone	*	2.7	30.0		ND	µg/L	1	09/20/2022 18:54	197803
1,1-Dichloroethane	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 18:54	197803
1,1-Dichloroethene	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 18:54	197803
1,1-Dichloropropene	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 18:54	197803
1,2,3-Trichlorobenzene	NELAP	0.2	2.0		ND	µg/L	1	09/20/2022 18:54	197803
1,2,3-Trichloropropane	NELAP	0.2	2.0		ND	µg/L	1	09/20/2022 18:54	197803
1,2,3-Trimethylbenzene	*	0.1	2.0		ND	µg/L	1	09/20/2022 18:54	197803
1,2,4-Trichlorobenzene	NELAP	0.2	2.0		ND	µg/L	1	09/20/2022 18:54	197803
1,2,4-Trimethylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 18:54	197803
1,2-Dibromo-3-chloropropane	NELAP	0.3	2.0		ND	µg/L	1	09/20/2022 18:54	197803
1,2-Dibromoethane	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 18:54	197803
1,2-Dichlorobenzene	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 18:54	197803
1,2-Dichloroethane	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 18:54	197803
1,2-Dichloropropane	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 18:54	197803
1,3,5-Trimethylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 18:54	197803
1,3-Dichlorobenzene	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 18:54	197803
1,3-Dichloropropane	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 18:54	197803
1,4-Dichlorobenzene	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 18:54	197803
1-Chlorobutane	NELAP	0.1	5.0		ND	µg/L	1	09/20/2022 18:54	197803
2,2-Dichloropropane	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 18:54	197803
2-Butanone	NELAP	0.4	10.0		ND	µg/L	1	09/20/2022 18:54	197803
2-Chloroethyl vinyl ether	NELAP	0.4	5.0		ND	µg/L	1	09/20/2022 18:54	197803
2-Chlorotoluene	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 18:54	197803
2-Hexanone	NELAP	0.4	10.0		ND	µg/L	1	09/20/2022 18:54	197803
2-Nitropropane	NELAP	1.1	10.0		ND	µg/L	1	09/20/2022 18:54	197803
4-Chlorotoluene	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 18:54	197803
4-Methyl-2-pentanone	NELAP	0.4	10.0		ND	µg/L	1	09/20/2022 18:54	197803
Acetone	NELAP	2.4	10.0		ND	µg/L	1	09/20/2022 18:54	197803
Acetonitrile	NELAP	1.4	10.0		ND	µg/L	1	09/20/2022 18:54	197803
Acrolein	NELAP	4.4	20.0		ND	µg/L	1	09/20/2022 18:54	197803
Acrylonitrile	NELAP	0.2	5.0		ND	µg/L	1	09/20/2022 18:54	197803
Allyl chloride	NELAP	0.2	5.0		ND	µg/L	1	09/20/2022 18:54	197803
Benzene	NELAP	0.1	0.5		ND	µg/L	1	09/20/2022 18:54	197803
Bromobenzene	NELAP	0.2	2.0		ND	µg/L	1	09/20/2022 18:54	197803
Bromochloromethane	NELAP	0.2	2.0		ND	µg/L	1	09/20/2022 18:54	197803
Bromodichloromethane	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 18:54	197803
Bromoform	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 18:54	197803
Bromomethane	NELAP	1.0	5.0		ND	µg/L	1	09/20/2022 18:54	197803
Carbon disulfide	NELAP	0.7	2.0		ND	µg/L	1	09/20/2022 18:54	197803
Carbon tetrachloride	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 18:54	197803
Chlorobenzene	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 18:54	197803
Chloroethane	NELAP	0.2	2.0		ND	µg/L	1	09/20/2022 18:54	197803



Laboratory Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091260

Client Project: Ameren Huster Road

Report Date: 26-Sep-22

Lab ID: 22091260-005

Client Sample ID: Trip Blank

Matrix: TRIP BLANK

Collection Date: 09/20/2022 13:19

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Chloroform	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 18:54	197803
Chloromethane	NELAP	0.2	5.0		ND	µg/L	1	09/20/2022 18:54	197803
Chloroprene	NELAP	0.1	5.0		ND	µg/L	1	09/20/2022 18:54	197803
cis-1,2-Dichloroethene	NELAP	0.2	2.0		ND	µg/L	1	09/20/2022 18:54	197803
cis-1,3-Dichloropropene	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 18:54	197803
cis-1,4-Dichloro-2-butene	NELAP	0.2	2.0		ND	µg/L	1	09/20/2022 18:54	197803
Cyclohexanone	*	3.8	20.0		ND	µg/L	1	09/20/2022 18:54	197803
Dibromochloromethane	NELAP	0.2	2.0		ND	µg/L	1	09/20/2022 18:54	197803
Dibromomethane	NELAP	0.2	2.0		ND	µg/L	1	09/20/2022 18:54	197803
Dichlorodifluoromethane	NELAP	0.2	2.0		ND	µg/L	1	09/20/2022 18:54	197803
Ethyl acetate	NELAP	2.6	10.0		ND	µg/L	1	09/20/2022 18:54	197803
Ethyl ether	NELAP	0.2	5.0		ND	µg/L	1	09/20/2022 18:54	197803
Ethyl methacrylate	NELAP	0.3	5.0		ND	µg/L	1	09/20/2022 18:54	197803
Ethylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 18:54	197803
Hexachlorobutadiene	NELAP	0.3	5.0		ND	µg/L	1	09/20/2022 18:54	197803
Hexachloroethane	NELAP	0.1	5.0		ND	µg/L	1	09/20/2022 18:54	197803
Iodomethane	NELAP	2.6	5.0		ND	µg/L	1	09/20/2022 18:54	197803
Isopropylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 18:54	197803
m,p-Xylenes	NELAP	0.2	2.0		ND	µg/L	1	09/20/2022 18:54	197803
Methacrylonitrile	NELAP	0.2	5.0		ND	µg/L	1	09/20/2022 18:54	197803
Methyl Methacrylate	NELAP	0.2	5.0		ND	µg/L	1	09/20/2022 18:54	197803
Methyl tert-butyl ether	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 18:54	197803
Methylacrylate	NELAP	0.2	5.0		ND	µg/L	1	09/20/2022 18:54	197803
Methylene chloride	NELAP	0.9	2.0		ND	µg/L	1	09/20/2022 18:54	197803
Naphthalene	NELAP	0.3	5.0		ND	µg/L	1	09/20/2022 18:54	197803
n-Butyl acetate	*	0.3	2.0		ND	µg/L	1	09/20/2022 18:54	197803
n-Butylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 18:54	197803
n-Heptane	*	0.2	5.0		ND	µg/L	1	09/20/2022 18:54	197803
n-Hexane	*	1.4	5.0		ND	µg/L	1	09/20/2022 18:54	197803
Nitrobenzene	NELAP	10.0	50.0		ND	µg/L	1	09/20/2022 18:54	197803
n-Propylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 18:54	197803
o-Xylene	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 18:54	197803
Pentachloroethane	NELAP	0.4	5.0		ND	µg/L	1	09/20/2022 18:54	197803
p-Isopropyltoluene	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 18:54	197803
Propionitrile	NELAP	0.9	10.0		ND	µg/L	1	09/20/2022 18:54	197803
sec-Butylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 18:54	197803
Styrene	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 18:54	197803
tert-Butylbenzene	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 18:54	197803
Tetrachloroethene	NELAP	0.1	0.5		ND	µg/L	1	09/20/2022 18:54	197803
Tetrahydrofuran	NELAP	0.8	5.0		ND	µg/L	1	09/20/2022 18:54	197803
Toluene	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 18:54	197803
trans-1,2-Dichloroethene	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 18:54	197803
trans-1,3-Dichloropropene	NELAP	0.1	2.0		ND	µg/L	1	09/20/2022 18:54	197803
trans-1,4-Dichloro-2-butene	NELAP	0.2	2.0		ND	µg/L	1	09/20/2022 18:54	197803
Trichloroethene	NELAP	0.2	2.0		ND	µg/L	1	09/20/2022 18:54	197803
Trichlorofluoromethane	NELAP	0.1	5.0		ND	µg/L	1	09/20/2022 18:54	197803
Vinyl acetate	NELAP	0.3	5.0		ND	µg/L	1	09/20/2022 18:54	197803



Laboratory Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091260

Client Project: Ameren Huster Road

Report Date: 26-Sep-22

Lab ID: 22091260-005

Client Sample ID: Trip Blank

Matrix: TRIP BLANK

Collection Date: 09/20/2022 13:19

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS									
Vinyl chloride	NELAP	0.1	1.0		ND	µg/L	1	09/20/2022 18:54	197803
Surr: 1,2-Dichloroethane-d4	*	0	80-120		95.3	%REC	1	09/20/2022 18:54	197803
Surr: 4-Bromofluorobenzene	*	0	80-120		94.5	%REC	1	09/20/2022 18:54	197803
Surr: Dibromofluoromethane	*	0	80-120		101.4	%REC	1	09/20/2022 18:54	197803
Surr: Toluene-d8	*	0	80-120		96.3	%REC	1	09/20/2022 18:54	197803



Sample Summary

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091260

Client Project: Ameren Huster Road

Report Date: 26-Sep-22

Lab Sample ID	Client Sample ID	Matrix	Fractions	Collection Date
22091260-001	PZ-12	Groundwater	1	09/19/2022 12:00
22091260-002	PZ-11	Groundwater	1	09/19/2022 12:30
22091260-003	PZ-3	Groundwater	1	09/19/2022 13:10
22091260-004	PZ-2	Groundwater	1	09/19/2022 13:50
22091260-005	Trip Blank	Trip Blank	1	09/20/2022 13:19



Dates Report

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091260

Client Project: Ameren Huster Road

Report Date: 26-Sep-22

Sample ID	Client Sample ID	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
22091260-001A	PZ-12	09/19/2022 12:00	09/20/2022 13:19		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				09/20/2022 19:19
22091260-002A	PZ-11	09/19/2022 12:30	09/20/2022 13:19		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				09/21/2022 4:37
22091260-003A	PZ-3	09/19/2022 13:10	09/20/2022 13:19		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				09/21/2022 5:01
22091260-004A	PZ-2	09/19/2022 13:50	09/20/2022 13:19		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				09/21/2022 5:26
22091260-005A	Trip Blank	09/20/2022 13:19	09/20/2022 13:19		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				09/20/2022 18:54



Quality Control Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091260

Client Project: Ameren Huster Road

Report Date: 26-Sep-22

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 197803 **SampType:** MBLK **Units** µg/L
SampID: MBLK-AM220920A-1

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
1,1,1,2-Tetrachloroethane	*	2.0		ND						09/20/2022
1,1,1-Trichloroethane	*	2.0		ND						09/20/2022
1,1,2,2-Tetrachloroethane	*	2.0		ND						09/20/2022
1,1,2-Trichloro-1,2,2-trifluoroethane	*	5.0		ND						09/20/2022
1,1,2-Trichloroethane	*	0.5		ND						09/20/2022
1,1-Dichloro-2-propanone	*	30.0		ND						09/20/2022
1,1-Dichloroethane	*	2.0		ND						09/20/2022
1,1-Dichloroethene	*	2.0		ND						09/20/2022
1,1-Dichloropropene	*	2.0		ND						09/20/2022
1,2,3-Trichlorobenzene	*	2.0		ND						09/20/2022
1,2,3-Trichloropropane	*	2.0		ND						09/20/2022
1,2,3-Trimethylbenzene	*	2.0		ND						09/20/2022
1,2,4-Trichlorobenzene	*	2.0		ND						09/20/2022
1,2,4-Trimethylbenzene	*	2.0		ND						09/20/2022
1,2-Dibromo-3-chloropropane	*	5.0		ND						09/20/2022
1,2-Dibromoethane	*	2.0		ND						09/20/2022
1,2-Dichlorobenzene	*	2.0		ND						09/20/2022
1,2-Dichloroethane	*	2.0		ND						09/20/2022
1,2-Dichloropropane	*	2.0		ND						09/20/2022
1,3,5-Trimethylbenzene	*	2.0		ND						09/20/2022
1,3-Dichlorobenzene	*	2.0		ND						09/20/2022
1,3-Dichloropropane	*	2.0		ND						09/20/2022
1,4-Dichlorobenzene	*	2.0		ND						09/20/2022
1-Chlorobutane	*	5.0		ND						09/20/2022
2,2-Dichloropropane	*	2.0		ND						09/20/2022
2-Butanone	*	10.0		ND						09/20/2022
2-Chloroethyl vinyl ether	*	5.0		ND						09/20/2022
2-Chlorotoluene	*	2.0		ND						09/20/2022
2-Hexanone	*	10.0		ND						09/20/2022
2-Nitropropane	*	10.0		ND						09/20/2022
4-Chlorotoluene	*	2.0		ND						09/20/2022
4-Methyl-2-pentanone	*	10.0		ND						09/20/2022
Acetone	*	10.0		ND						09/20/2022
Acetonitrile	*	10.0		ND						09/20/2022
Acrolein	*	20.0		ND						09/20/2022
Acrylonitrile	*	5.0		ND						09/20/2022



Quality Control Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091260

Client Project: Ameren Huster Road

Report Date: 26-Sep-22

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 197803 **SampType:** MBLK **Units** µg/L
SampID: MBLK-AM220920A-1

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Allyl chloride	*	5.0		ND						09/20/2022
Benzene	*	0.5		ND						09/20/2022
Bromobenzene	*	2.0		ND						09/20/2022
Bromochloromethane	*	2.0		ND						09/20/2022
Bromodichloromethane	*	2.0		ND						09/20/2022
Bromoform	*	2.0		ND						09/20/2022
Bromomethane	*	5.0		ND						09/20/2022
Carbon disulfide	*	2.0		ND						09/20/2022
Carbon tetrachloride	*	2.0		ND						09/20/2022
Chlorobenzene	*	2.0		ND						09/20/2022
Chloroethane	*	2.0		ND						09/20/2022
Chloroform	*	2.0		ND						09/20/2022
Chloromethane	*	5.0		ND						09/20/2022
Chloroprene	*	5.0		ND						09/20/2022
cis-1,2-Dichloroethene	*	2.0		ND						09/20/2022
cis-1,3-Dichloropropene	*	2.0		ND						09/20/2022
cis-1,4-Dichloro-2-butene	*	2.0		ND						09/20/2022
Cyclohexanone	*	20.0		ND						09/20/2022
Dibromochloromethane	*	2.0		ND						09/20/2022
Dibromomethane	*	2.0		ND						09/20/2022
Dichlorodifluoromethane	*	2.0		ND						09/20/2022
Ethyl acetate	*	10.0		ND						09/20/2022
Ethyl ether	*	5.0		ND						09/20/2022
Ethyl methacrylate	*	5.0		ND						09/20/2022
Ethylbenzene	*	2.0		ND						09/20/2022
Hexachlorobutadiene	*	5.0		ND						09/20/2022
Hexachloroethane	*	5.0		ND						09/20/2022
Iodomethane	*	5.0		ND						09/20/2022
Isopropylbenzene	*	2.0		ND						09/20/2022
m,p-Xylenes	*	2.0		ND						09/20/2022
Methacrylonitrile	*	5.0		ND						09/20/2022
Methyl Methacrylate	*	5.0		ND						09/20/2022
Methyl tert-butyl ether	*	2.0		ND						09/20/2022
Methylacrylate	*	5.0		ND						09/20/2022
Methylene chloride	*	2.0		ND						09/20/2022
Naphthalene	*	5.0		ND						09/20/2022



Quality Control Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091260

Client Project: Ameren Huster Road

Report Date: 26-Sep-22

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 197803 **SampType:** MBLK **Units** µg/L
SampID: MBLK-AM220920A-1

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
n-Butyl acetate	*	2.0		ND						09/20/2022
n-Butylbenzene	*	2.0		ND						09/20/2022
n-Heptane	*	5.0		ND						09/20/2022
n-Hexane	*	5.0		ND						09/20/2022
Nitrobenzene	*	50.0		ND						09/20/2022
n-Propylbenzene	*	2.0		ND						09/20/2022
o-Xylene	*	2.0		ND						09/20/2022
Pentachloroethane	*	5.0		ND						09/20/2022
p-Isopropyltoluene	*	2.0		ND						09/20/2022
Propionitrile	*	10.0		ND						09/20/2022
sec-Butylbenzene	*	2.0		ND						09/20/2022
Styrene	*	2.0		ND						09/20/2022
tert-Butylbenzene	*	2.0		ND						09/20/2022
Tetrachloroethene	*	0.5		ND						09/20/2022
Tetrahydrofuran	*	5.0		ND						09/20/2022
Toluene	*	2.0		ND						09/20/2022
trans-1,2-Dichloroethene	*	2.0		ND						09/20/2022
trans-1,3-Dichloropropene	*	2.0		ND						09/20/2022
trans-1,4-Dichloro-2-butene	*	2.0		ND						09/20/2022
Trichloroethene	*	2.0		ND						09/20/2022
Trichlorofluoromethane	*	5.0		ND						09/20/2022
Vinyl acetate	*	5.0		ND						09/20/2022
Vinyl chloride	*	2.0		ND						09/20/2022
Surr: 1,2-Dichloroethane-d4	*			47.6	50.00		95.3	80	120	09/20/2022
Surr: 4-Bromofluorobenzene	*			46.6	50.00		93.2	80	120	09/20/2022
Surr: Dibromofluoromethane	*			51.5	50.00		102.9	80	120	09/20/2022
Surr: Toluene-d8	*			48.4	50.00		96.8	80	120	09/20/2022



Quality Control Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091260

Client Project: Ameren Huster Road

Report Date: 26-Sep-22

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 197803		SampType: LCS		Units µg/L							
SampID: LCS-AM220920A-1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
1,1,1,2-Tetrachloroethane	*	2.0		53.4	50.00	0	106.8	82	113	09/20/2022	
1,1,1-Trichloroethane	*	2.0		52.0	50.00	0	104.1	76.9	128	09/20/2022	
1,1,2,2-Tetrachloroethane	*	2.0		50.0	50.00	0	99.9	76.7	113	09/20/2022	
1,1,2-Trichloro-1,2,2-trifluoroethane	*	5.0		58.4	50.00	0	116.9	69.5	127	09/20/2022	
1,1,2-Trichloroethane	*	0.5		50.8	50.00	0	101.7	83.8	111	09/20/2022	
1,1-Dichloro-2-propanone	*	30.0		120	125.0	0	96.2	74.9	117	09/20/2022	
1,1-Dichloroethane	*	2.0		53.7	50.00	0	107.5	77	129	09/20/2022	
1,1-Dichloroethene	*	2.0		55.3	50.00	0	110.7	69.4	127	09/20/2022	
1,1-Dichloropropene	*	2.0		57.5	50.00	0	115.1	75.1	123	09/20/2022	
1,2,3-Trichlorobenzene	*	2.0		52.9	50.00	0	105.7	77.3	121	09/20/2022	
1,2,3-Trichloropropane	*	2.0		48.8	50.00	0	97.6	75.3	109	09/20/2022	
1,2,3-Trimethylbenzene	*	2.0		51.9	50.00	0	103.8	77	115	09/20/2022	
1,2,4-Trichlorobenzene	*	2.0		53.7	50.00	0	107.4	76.8	124	09/20/2022	
1,2,4-Trimethylbenzene	*	2.0		50.6	50.00	0	101.2	75	115	09/20/2022	
1,2-Dibromo-3-chloropropane	*	5.0		48.4	50.00	0	96.9	71.9	119	09/20/2022	
1,2-Dibromoethane	*	2.0		51.5	50.00	0	103.1	83.6	110	09/20/2022	
1,2-Dichlorobenzene	*	2.0		51.7	50.00	0	103.4	72.1	113	09/20/2022	
1,2-Dichloroethane	*	2.0		48.6	50.00	0	97.2	72.3	117	09/20/2022	
1,2-Dichloropropane	*	2.0		54.0	50.00	0	107.9	76.5	119	09/20/2022	
1,3,5-Trimethylbenzene	*	2.0		51.4	50.00	0	102.7	75.2	117	09/20/2022	
1,3-Dichlorobenzene	*	2.0		52.6	50.00	0	105.3	75.2	115	09/20/2022	
1,3-Dichloropropane	*	2.0		51.8	50.00	0	103.5	80.9	110	09/20/2022	
1,4-Dichlorobenzene	*	2.0		54.1	50.00	0	108.2	73.9	112	09/20/2022	
1-Chlorobutane	*	5.0		55.8	50.00	0	111.6	74.9	130	09/20/2022	
2,2-Dichloropropane	*	2.0		49.7	50.00	0	99.5	66.5	138	09/20/2022	
2-Butanone	*	10.0		129	125.0	0	103.3	68.8	134	09/20/2022	
2-Chloroethyl vinyl ether	*	5.0		49.3	50.00	0	98.7	17.8	163	09/20/2022	
2-Chlorotoluene	*	2.0		49.3	50.00	0	98.6	74.9	115	09/20/2022	
2-Hexanone	*	10.0		122	125.0	0	97.7	73.2	117	09/20/2022	
2-Nitropropane	*	10.0		557	500.0	0	111.4	67.1	140	09/20/2022	
4-Chlorotoluene	*	2.0		51.8	50.00	0	103.6	75.7	113	09/20/2022	
4-Methyl-2-pentanone	*	10.0		130	125.0	0	103.8	77	113	09/20/2022	
Acetone	*	10.0		151	125.0	0	120.8	61.4	130	09/20/2022	
Acetonitrile	*	10.0		551	500.0	0	110.1	68.8	136	09/20/2022	
Acrolein	*	20.0		431	500.0	0	86.3	28.4	168	09/20/2022	
Acrylonitrile	*	5.0		55.5	50.00	0	111.0	77.9	124	09/20/2022	



Quality Control Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091260

Client Project: Ameren Huster Road

Report Date: 26-Sep-22

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 197803 **SampType:** LCS **Units** µg/L
SampID: LCS-AM220920A-1

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Allyl chloride	*	5.0		56.5	50.00	0	112.9	75.8	130	09/20/2022
Benzene	*	0.5		54.2	50.00	0	108.5	78.5	119	09/20/2022
Bromobenzene	*	2.0		51.9	50.00	0	103.9	77.5	113	09/20/2022
Bromochloromethane	*	2.0		53.4	50.00	0	106.8	71.5	123	09/20/2022
Bromodichloromethane	*	2.0		53.3	50.00	0	106.6	75.7	123	09/20/2022
Bromoform	*	2.0		51.6	50.00	0	103.1	78.9	121	09/20/2022
Bromomethane	*	5.0		53.5	50.00	0	107.0	30.5	192	09/20/2022
Carbon disulfide	*	2.0		56.9	50.00	0	113.8	66.7	121	09/20/2022
Carbon tetrachloride	*	2.0		55.9	50.00	0	111.8	70.9	127	09/20/2022
Chlorobenzene	*	2.0		51.8	50.00	0	103.5	80	111	09/20/2022
Chloroethane	*	2.0		62.4	50.00	0	124.8	69.6	135	09/20/2022
Chloroform	*	2.0		52.3	50.00	0	104.7	76.2	120	09/20/2022
Chloromethane	*	5.0		50.4	50.00	0	100.7	50.9	138	09/20/2022
Chloroprene	*	5.0		54.0	50.00	0	108.1	68.4	127	09/20/2022
cis-1,2-Dichloroethene	*	2.0		56.0	50.00	0	112.0	79.5	121	09/20/2022
cis-1,3-Dichloropropene	*	2.0		52.9	50.00	0	105.8	79.8	123	09/20/2022
cis-1,4-Dichloro-2-butene	*	2.0		49.0	50.00	0	97.9	64.6	130	09/20/2022
Cyclohexanone	*	20.0		524	500.0	0	104.8	70.5	114	09/20/2022
Dibromochloromethane	*	2.0		51.6	50.00	0	103.1	84.5	114	09/20/2022
Dibromomethane	*	2.0		54.2	50.00	0	108.3	76	119	09/20/2022
Dichlorodifluoromethane	*	2.0		48.0	50.00	0	96.1	46.6	142	09/20/2022
Ethyl acetate	*	10.0		49.9	50.00	0	99.8	70.3	115	09/20/2022
Ethyl ether	*	5.0		53.4	50.00	0	106.8	74.6	120	09/20/2022
Ethyl methacrylate	*	5.0		50.3	50.00	0	100.6	81.4	116	09/20/2022
Ethylbenzene	*	2.0		52.6	50.00	0	105.2	78.2	114	09/20/2022
Hexachlorobutadiene	*	5.0		56.9	50.00	0	113.8	73.9	129	09/20/2022
Hexachloroethane	*	5.0		55.7	50.00	0	111.5	78.3	123	09/20/2022
Iodomethane	*	5.0		57.0	50.00	0	113.9	50	151	09/20/2022
Isopropylbenzene	*	2.0		54.1	50.00	0	108.3	79.3	115	09/20/2022
m,p-Xylenes	*	2.0		106	100.0	0	105.6	77.2	116	09/20/2022
Methacrylonitrile	*	5.0		54.4	50.00	0	108.8	73.9	127	09/20/2022
Methyl Methacrylate	*	5.0		48.6	50.00	0	97.3	70.7	129	09/20/2022
Methyl tert-butyl ether	*	2.0		48.9	50.00	0	97.8	80.3	122	09/20/2022
Methylacrylate	*	5.0		54.0	50.00	0	108.1	75.2	124	09/20/2022
Methylene chloride	*	2.0		54.3	50.00	0	108.6	71.8	115	09/20/2022
Naphthalene	*	5.0		51.4	50.00	0	102.8	75.6	121	09/20/2022



Quality Control Results

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Client: Loureiro Engineering Associates, LLC

Work Order: 22091260

Client Project: Ameren Huster Road

Report Date: 26-Sep-22

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 197803		SampType: LCS		Units µg/L							
SampID: LCS-AM220920A-1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
n-Butyl acetate	*	2.0		46.8	50.00	0	93.6	72.4	118	09/20/2022	
n-Butylbenzene	*	2.0		52.4	50.00	0	104.8	70.8	118	09/20/2022	
n-Heptane	*	5.0		56.6	50.00	0	113.1	50.4	143	09/20/2022	
n-Hexane	*	5.0		51.4	50.00	0	102.8	60.6	139	09/20/2022	
Nitrobenzene	*	50.0		569	500.0	0	113.9	49.4	129	09/20/2022	
n-Propylbenzene	*	2.0		52.5	50.00	0	105.0	74	119	09/20/2022	
o-Xylene	*	2.0		53.1	50.00	0	106.2	79.2	112	09/20/2022	
Pentachloroethane	*	5.0		53.4	50.00	0	106.8	71.8	124	09/20/2022	
p-Isopropyltoluene	*	2.0		52.1	50.00	0	104.2	74.4	119	09/20/2022	
Propionitrile	*	10.0		564	500.0	0	112.8	76.2	127	09/20/2022	
sec-Butylbenzene	*	2.0		53.8	50.00	0	107.7	74.4	119	09/20/2022	
Styrene	*	2.0		55.2	50.00	0	110.3	80.4	117	09/20/2022	
tert-Butylbenzene	*	2.0		50.7	50.00	0	101.3	74	115	09/20/2022	
Tetrachloroethene	*	0.5		53.2	50.00	0	106.4	70.1	120	09/20/2022	
Tetrahydrofuran	*	5.0		47.1	50.00	0	94.2	63.5	122	09/20/2022	
Toluene	*	2.0		52.8	50.00	0	105.6	78.6	112	09/20/2022	
trans-1,2-Dichloroethene	*	2.0		55.1	50.00	0	110.2	75.7	130	09/20/2022	
trans-1,3-Dichloropropene	*	2.0		49.0	50.00	0	98.1	80.3	116	09/20/2022	
trans-1,4-Dichloro-2-butene	*	2.0		48.3	50.00	0	96.7	65.5	124	09/20/2022	
Trichloroethene	*	2.0		53.8	50.00	0	107.6	76.2	121	09/20/2022	
Trichlorofluoromethane	*	5.0		55.8	50.00	0	111.6	71.1	131	09/20/2022	
Vinyl acetate	*	5.0		52.7	50.00	0	105.3	79.8	129	09/20/2022	
Vinyl chloride	*	2.0		56.7	50.00	0	113.4	58.6	141	09/20/2022	
Surr: 1,2-Dichloroethane-d4	*			46.7	50.00		93.4	80	120	09/20/2022	
Surr: 4-Bromofluorobenzene	*			46.4	50.00		92.8	80	120	09/20/2022	
Surr: Dibromofluoromethane	*			50.6	50.00		101.2	80	120	09/20/2022	
Surr: Toluene-d8	*			48.6	50.00		97.3	80	120	09/20/2022	



Quality Control Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091260

Client Project: Ameren Huster Road

Report Date: 26-Sep-22

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	SampType:	LCSD	Units µg/L							RPD Limit: 15.4	Date Analyzed
SampID: LCSD-AM220920A-1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
1,1,1,2-Tetrachloroethane	*	2.0		49.9	50.00	0	99.8	53.38	6.70	09/20/2022	
1,1,1-Trichloroethane	*	2.0		47.8	50.00	0	95.6	52.04	8.47	09/20/2022	
1,1,2,2-Tetrachloroethane	*	2.0		47.9	50.00	0	95.9	49.95	4.11	09/20/2022	
1,1,2-Trichloro-1,2,2-trifluoroethane	*	5.0		52.5	50.00	0	105.0	58.45	10.74	09/20/2022	
1,1,2-Trichloroethane	*	0.5		49.0	50.00	0	98.0	50.83	3.63	09/20/2022	
1,1-Dichloro-2-propanone	*	30.0		119	125.0	0	95.6	120.3	0.68	09/20/2022	
1,1-Dichloroethane	*	2.0		50.1	50.00	0	100.1	53.74	7.07	09/20/2022	
1,1-Dichloroethene	*	2.0		50.4	50.00	0	100.8	55.33	9.37	09/20/2022	
1,1-Dichloropropene	*	2.0		52.3	50.00	0	104.5	57.54	9.60	09/20/2022	
1,2,3-Trichlorobenzene	*	2.0		49.9	50.00	0	99.7	52.86	5.84	09/20/2022	
1,2,3-Trichloropropane	*	2.0		46.9	50.00	0	93.8	48.79	3.91	09/20/2022	
1,2,3-Trimethylbenzene	*	2.0		47.8	50.00	0	95.6	51.89	8.21	09/20/2022	
1,2,4-Trichlorobenzene	*	2.0		50.4	50.00	0	100.8	53.69	6.34	09/20/2022	
1,2,4-Trimethylbenzene	*	2.0		46.6	50.00	0	93.2	50.58	8.23	09/20/2022	
1,2-Dibromo-3-chloropropane	*	5.0		46.4	50.00	0	92.8	48.45	4.34	09/20/2022	
1,2-Dibromoethane	*	2.0		49.1	50.00	0	98.2	51.53	4.83	09/20/2022	
1,2-Dichlorobenzene	*	2.0		48.3	50.00	0	96.6	51.71	6.86	09/20/2022	
1,2-Dichloroethane	*	2.0		46.7	50.00	0	93.4	48.58	3.99	09/20/2022	
1,2-Dichloropropane	*	2.0		51.3	50.00	0	102.6	53.97	5.05	09/20/2022	
1,3,5-Trimethylbenzene	*	2.0		47.0	50.00	0	94.1	51.37	8.82	09/20/2022	
1,3-Dichlorobenzene	*	2.0		48.9	50.00	0	97.9	52.63	7.27	09/20/2022	
1,3-Dichloropropane	*	2.0		49.8	50.00	0	99.5	51.75	3.94	09/20/2022	
1,4-Dichlorobenzene	*	2.0		50.4	50.00	0	100.7	54.09	7.14	09/20/2022	
1-Chlorobutane	*	5.0		51.1	50.00	0	102.1	55.78	8.84	09/20/2022	
2,2-Dichloropropane	*	2.0		45.8	50.00	0	91.6	49.74	8.27	09/20/2022	
2-Butanone	*	10.0		124	125.0	0	98.9	129.2	4.41	09/20/2022	
2-Chloroethyl vinyl ether	*	5.0		48.4	50.00	0	96.8	49.33	1.86	09/20/2022	
2-Chlorotoluene	*	2.0		45.6	50.00	0	91.2	49.31	7.86	09/20/2022	
2-Hexanone	*	10.0		118	125.0	0	94.5	122.1	3.31	09/20/2022	
2-Nitropropane	*	10.0		543	500.0	0	108.5	557.1	2.66	09/20/2022	
4-Chlorotoluene	*	2.0		47.6	50.00	0	95.1	51.79	8.54	09/20/2022	
4-Methyl-2-pentanone	*	10.0		125	125.0	0	100.2	129.8	3.58	09/20/2022	
Acetone	*	10.0		133	125.0	0	106.1	150.9	12.91	09/20/2022	
Acetonitrile	*	10.0		602	500.0	0	120.3	550.6	8.85	09/20/2022	
Acrolein	*	20.0		457	500.0	0	91.4	431.4	5.75	09/20/2022	
Acrylonitrile	*	5.0		54.5	50.00	0	108.9	55.50	1.89	09/20/2022	



Quality Control Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091260

Client Project: Ameren Huster Road

Report Date: 26-Sep-22

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 197803	SampType: LCSD	Units µg/L								RPD Limit: 15.4	Date Analyzed
SampID: LCSD-AM220920A-1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Allyl chloride	*	5.0		52.7	50.00	0	105.4	56.47	6.89	09/20/2022	
Benzene	*	0.5		50.4	50.00	0	100.8	54.23	7.30	09/20/2022	
Bromobenzene	*	2.0		48.6	50.00	0	97.2	51.94	6.69	09/20/2022	
Bromochloromethane	*	2.0		51.6	50.00	0	103.3	53.41	3.37	09/20/2022	
Bromodichloromethane	*	2.0		50.5	50.00	0	100.9	53.31	5.49	09/20/2022	
Bromoform	*	2.0		50.2	50.00	0	100.3	51.56	2.77	09/20/2022	
Bromomethane	*	5.0		54.4	50.00	0	108.7	53.48	1.61	09/20/2022	
Carbon disulfide	*	2.0		51.0	50.00	0	101.9	56.91	11.03	09/20/2022	
Carbon tetrachloride	*	2.0		50.8	50.00	0	101.7	55.89	9.48	09/20/2022	
Chlorobenzene	*	2.0		48.4	50.00	0	96.7	51.77	6.83	09/20/2022	
Chloroethane	*	2.0		56.2	50.00	0	112.5	62.39	10.37	09/20/2022	
Chloroform	*	2.0		49.1	50.00	0	98.2	52.33	6.33	09/20/2022	
Chloromethane	*	5.0		45.2	50.00	0	90.5	50.37	10.75	09/20/2022	
Chloroprene	*	5.0		48.5	50.00	0	97.0	54.05	10.80	09/20/2022	
cis-1,2-Dichloroethene	*	2.0		52.0	50.00	0	104.0	56.02	7.42	09/20/2022	
cis-1,3-Dichloropropene	*	2.0		51.0	50.00	0	101.9	52.91	3.74	09/20/2022	
cis-1,4-Dichloro-2-butene	*	2.0		48.2	50.00	0	96.5	48.97	1.48	09/20/2022	
Cyclohexanone	*	20.0		505	500.0	0	101.0	524.2	3.70	09/20/2022	
Dibromochloromethane	*	2.0		49.7	50.00	0	99.4	51.56	3.63	09/20/2022	
Dibromomethane	*	2.0		52.2	50.00	0	104.3	54.17	3.76	09/20/2022	
Dichlorodifluoromethane	*	2.0		42.0	50.00	0	84.0	48.04	13.46	09/20/2022	
Ethyl acetate	*	10.0		49.5	50.00	0	99.1	49.91	0.74	09/20/2022	
Ethyl ether	*	5.0		51.7	50.00	0	103.5	53.41	3.18	09/20/2022	
Ethyl methacrylate	*	5.0		49.0	50.00	0	98.0	50.30	2.66	09/20/2022	
Ethylbenzene	*	2.0		48.4	50.00	0	96.9	52.60	8.21	09/20/2022	
Hexachlorobutadiene	*	5.0		52.0	50.00	0	103.9	56.89	9.04	09/20/2022	
Hexachloroethane	*	5.0		50.4	50.00	0	100.7	55.73	10.10	09/20/2022	
Iodomethane	*	5.0		56.0	50.00	0	112.0	56.96	1.70	09/20/2022	
Isopropylbenzene	*	2.0		49.4	50.00	0	98.9	54.13	9.06	09/20/2022	
m,p-Xylenes	*	2.0		97.7	100.0	0	97.7	105.6	7.71	09/20/2022	
Methacrylonitrile	*	5.0		53.4	50.00	0	106.8	54.42	1.85	09/20/2022	
Methyl Methacrylate	*	5.0		47.6	50.00	0	95.1	48.63	2.25	09/20/2022	
Methyl tert-butyl ether	*	2.0		48.0	50.00	0	96.1	48.88	1.75	09/20/2022	
Methylacrylate	*	5.0		52.7	50.00	0	105.4	54.03	2.47	09/20/2022	
Methylene chloride	*	2.0		51.5	50.00	0	103.0	54.29	5.31	09/20/2022	
Naphthalene	*	5.0		48.8	50.00	0	97.7	51.39	5.07	09/20/2022	



Quality Control Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091260

Client Project: Ameren Huster Road

Report Date: 26-Sep-22

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	197803	SampType:	LCSD	Units µg/L			RPD Limit: 15.4			
SampID: LCSD-AM220920A-1										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
n-Butyl acetate	*	2.0		45.9	50.00	0	91.8	46.78	1.90	09/20/2022
n-Butylbenzene	*	2.0		48.0	50.00	0	96.0	52.40	8.76	09/20/2022
n-Heptane	*	5.0		57.7	50.00	0	115.3	56.55	1.96	09/20/2022
n-Hexane	*	5.0		51.2	50.00	0	102.5	51.39	0.29	09/20/2022
Nitrobenzene	*	50.0		547	500.0	0	109.4	569.4	3.99	09/20/2022
n-Propylbenzene	*	2.0		48.0	50.00	0	95.9	52.52	9.10	09/20/2022
o-Xylene	*	2.0		49.7	50.00	0	99.4	53.09	6.60	09/20/2022
Pentachloroethane	*	5.0		50.5	50.00	0	101.1	53.39	5.50	09/20/2022
p-Isopropyltoluene	*	2.0		47.0	50.00	0	94.0	52.08	10.23	09/20/2022
Propionitrile	*	10.0		549	500.0	0	109.8	563.9	2.71	09/20/2022
sec-Butylbenzene	*	2.0		48.3	50.00	0	96.5	53.85	10.93	09/20/2022
Styrene	*	2.0		51.3	50.00	0	102.6	55.17	7.23	09/20/2022
tert-Butylbenzene	*	2.0		45.6	50.00	0	91.1	50.66	10.58	09/20/2022
Tetrachloroethene	*	0.5		48.8	50.00	0	97.5	53.22	8.73	09/20/2022
Tetrahydrofuran	*	5.0		45.6	50.00	0	91.3	47.09	3.13	09/20/2022
Toluene	*	2.0		48.7	50.00	0	97.4	52.80	8.12	09/20/2022
trans-1,2-Dichloroethene	*	2.0		50.5	50.00	0	101.0	55.11	8.75	09/20/2022
trans-1,3-Dichloropropene	*	2.0		47.0	50.00	0	94.0	49.05	4.25	09/20/2022
trans-1,4-Dichloro-2-butene	*	2.0		46.0	50.00	0	91.9	48.33	5.01	09/20/2022
Trichloroethene	*	2.0		50.0	50.00	0	100.1	53.81	7.26	09/20/2022
Trichlorofluoromethane	*	5.0		50.4	50.00	0	100.9	55.80	10.11	09/20/2022
Vinyl acetate	*	5.0		52.0	50.00	0	103.9	52.66	1.32	09/20/2022
Vinyl chloride	*	2.0		50.3	50.00	0	100.7	56.72	11.92	09/20/2022
Surr: 1,2-Dichloroethane-d4	*			47.1	50.00		94.2			09/20/2022
Surr: 4-Bromofluorobenzene	*			46.0	50.00		92.0			09/20/2022
Surr: Dibromofluoromethane	*			50.2	50.00		100.4			09/20/2022
Surr: Toluene-d8	*			48.4	50.00		96.9			09/20/2022



Quality Control Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091260

Client Project: Ameren Huster Road

Report Date: 26-Sep-22

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 197856 **SampType:** MBLK **Units** µg/L
SampID: MBLK-AM220920A-2

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
1,1,1,2-Tetrachloroethane	*	2.0		ND						09/20/2022
1,1,1-Trichloroethane	*	2.0		ND						09/20/2022
1,1,2,2-Tetrachloroethane	*	2.0		ND						09/20/2022
1,1,2-Trichloro-1,2,2-trifluoroethane	*	5.0		ND						09/20/2022
1,1,2-Trichloroethane	*	0.5		ND						09/20/2022
1,1-Dichloro-2-propanone	*	30.0		ND						09/20/2022
1,1-Dichloroethane	*	2.0		ND						09/20/2022
1,1-Dichloroethene	*	2.0		ND						09/20/2022
1,1-Dichloropropene	*	2.0		ND						09/20/2022
1,2,3-Trichlorobenzene	*	2.0		ND						09/20/2022
1,2,3-Trichloropropane	*	2.0		ND						09/20/2022
1,2,3-Trimethylbenzene	*	2.0		ND						09/20/2022
1,2,4-Trichlorobenzene	*	2.0		ND						09/20/2022
1,2,4-Trimethylbenzene	*	2.0		ND						09/20/2022
1,2-Dibromo-3-chloropropane	*	5.0		ND						09/20/2022
1,2-Dibromoethane	*	2.0		ND						09/20/2022
1,2-Dichlorobenzene	*	2.0		ND						09/20/2022
1,2-Dichloroethane	*	2.0		ND						09/20/2022
1,2-Dichloropropane	*	2.0		ND						09/20/2022
1,3,5-Trimethylbenzene	*	2.0		ND						09/20/2022
1,3-Dichlorobenzene	*	2.0		ND						09/20/2022
1,3-Dichloropropane	*	2.0		ND						09/20/2022
1,4-Dichlorobenzene	*	2.0		ND						09/20/2022
1-Chlorobutane	*	5.0		ND						09/20/2022
2,2-Dichloropropane	*	2.0		ND						09/20/2022
2-Butanone	*	10.0		ND						09/20/2022
2-Chloroethyl vinyl ether	*	5.0		ND						09/20/2022
2-Chlorotoluene	*	2.0		ND						09/20/2022
2-Hexanone	*	10.0		ND						09/20/2022
2-Nitropropane	*	10.0		ND						09/20/2022
4-Chlorotoluene	*	2.0		ND						09/20/2022
4-Methyl-2-pentanone	*	10.0		ND						09/20/2022
Acetone	*	10.0		ND						09/20/2022
Acetonitrile	*	10.0		ND						09/20/2022
Acrolein	*	20.0		ND						09/20/2022
Acrylonitrile	*	5.0		ND						09/20/2022



Quality Control Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091260

Client Project: Ameren Huster Road

Report Date: 26-Sep-22

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 197856 **SampType:** MBLK **Units** µg/L
SampID: MBLK-AM220920A-2

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Allyl chloride	*	5.0		ND						09/20/2022
Benzene	*	0.5		ND						09/20/2022
Bromobenzene	*	2.0		ND						09/20/2022
Bromochloromethane	*	2.0		ND						09/20/2022
Bromodichloromethane	*	2.0		ND						09/20/2022
Bromoform	*	2.0		ND						09/20/2022
Bromomethane	*	5.0		ND						09/20/2022
Carbon disulfide	*	2.0		ND						09/20/2022
Carbon tetrachloride	*	2.0		ND						09/20/2022
Chlorobenzene	*	2.0		ND						09/20/2022
Chloroethane	*	2.0		ND						09/20/2022
Chloroform	*	2.0		ND						09/20/2022
Chloromethane	*	5.0		ND						09/20/2022
Chloroprene	*	5.0		ND						09/20/2022
cis-1,2-Dichloroethene	*	2.0		ND						09/20/2022
cis-1,3-Dichloropropene	*	2.0		ND						09/20/2022
cis-1,4-Dichloro-2-butene	*	2.0		ND						09/20/2022
Cyclohexanone	*	20.0		ND						09/20/2022
Dibromochloromethane	*	2.0		ND						09/20/2022
Dibromomethane	*	2.0		ND						09/20/2022
Dichlorodifluoromethane	*	2.0		ND						09/20/2022
Ethyl acetate	*	10.0		ND						09/20/2022
Ethyl ether	*	5.0		ND						09/20/2022
Ethyl methacrylate	*	5.0		ND						09/20/2022
Ethylbenzene	*	2.0		ND						09/20/2022
Hexachlorobutadiene	*	5.0		ND						09/20/2022
Hexachloroethane	*	5.0		ND						09/20/2022
Iodomethane	*	5.0		ND						09/20/2022
Isopropylbenzene	*	2.0		ND						09/20/2022
m,p-Xylenes	*	2.0		ND						09/20/2022
Methacrylonitrile	*	5.0		ND						09/20/2022
Methyl Methacrylate	*	5.0		ND						09/20/2022
Methyl tert-butyl ether	*	2.0		ND						09/20/2022
Methylacrylate	*	5.0		ND						09/20/2022
Methylene chloride	*	2.0		ND						09/20/2022
Naphthalene	*	5.0		ND						09/20/2022



Quality Control Results

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Client: Loureiro Engineering Associates, LLC

Work Order: 22091260

Client Project: Ameren Huster Road

Report Date: 26-Sep-22

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 197856 **SampType:** MBLK **Units** µg/L
SampID: MBLK-AM220920A-2

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
n-Butyl acetate	*	2.0		ND						09/20/2022
n-Butylbenzene	*	2.0		ND						09/20/2022
n-Heptane	*	5.0		ND						09/20/2022
n-Hexane	*	5.0		ND						09/20/2022
Nitrobenzene	*	50.0		ND						09/20/2022
n-Propylbenzene	*	2.0		ND						09/20/2022
o-Xylene	*	2.0		ND						09/20/2022
Pentachloroethane	*	5.0		ND						09/20/2022
p-Isopropyltoluene	*	2.0		ND						09/20/2022
Propionitrile	*	10.0		ND						09/20/2022
sec-Butylbenzene	*	2.0		ND						09/20/2022
Styrene	*	2.0		ND						09/20/2022
tert-Butylbenzene	*	2.0		ND						09/20/2022
Tetrachloroethene	*	0.5		ND						09/20/2022
Tetrahydrofuran	*	5.0		ND						09/20/2022
Toluene	*	2.0		ND						09/20/2022
trans-1,2-Dichloroethene	*	2.0		ND						09/20/2022
trans-1,3-Dichloropropene	*	2.0		ND						09/20/2022
trans-1,4-Dichloro-2-butene	*	2.0		ND						09/20/2022
Trichloroethene	*	2.0		ND						09/20/2022
Trichlorofluoromethane	*	5.0		ND						09/20/2022
Vinyl acetate	*	5.0		ND						09/20/2022
Vinyl chloride	*	2.0		ND						09/20/2022
Surr: 1,2-Dichloroethane-d4	*			46.5	50.00		93.1	80	120	09/20/2022
Surr: 4-Bromofluorobenzene	*			46.9	50.00		93.7	80	120	09/20/2022
Surr: Dibromofluoromethane	*			50.7	50.00		101.5	80	120	09/20/2022
Surr: Toluene-d8	*			48.6	50.00		97.1	80	120	09/20/2022



Quality Control Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091260

Client Project: Ameren Huster Road

Report Date: 26-Sep-22

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 197856 **SampType:** LCS

Units µg/L

SampID: LCS-AM220920A-2

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
1,1,1,2-Tetrachloroethane	*	2.0		52.8	50.00	0	105.6	82	113	09/20/2022
1,1,1-Trichloroethane	*	2.0		52.3	50.00	0	104.5	76.9	128	09/20/2022
1,1,2,2-Tetrachloroethane	*	2.0		49.8	50.00	0	99.6	76.7	113	09/20/2022
1,1,2-Trichloro-1,2,2-trifluoroethane	*	5.0		56.9	50.00	0	113.8	69.5	127	09/20/2022
1,1,2-Trichloroethane	*	0.5		50.6	50.00	0	101.2	83.8	111	09/20/2022
1,1-Dichloro-2-propanone	*	30.0		124	125.0	0	99.3	74.9	117	09/20/2022
1,1-Dichloroethane	*	2.0		54.5	50.00	0	109.0	77	129	09/20/2022
1,1-Dichloroethene	*	2.0		55.4	50.00	0	110.8	69.4	127	09/20/2022
1,1-Dichloropropene	*	2.0		57.3	50.00	0	114.5	75.1	123	09/20/2022
1,2,3-Trichlorobenzene	*	2.0		50.8	50.00	0	101.5	77.3	121	09/20/2022
1,2,3-Trichloropropane	*	2.0		47.8	50.00	0	95.6	75.3	109	09/20/2022
1,2,3-Trimethylbenzene	*	2.0		50.6	50.00	0	101.3	77	115	09/20/2022
1,2,4-Trichlorobenzene	*	2.0		51.8	50.00	0	103.7	76.8	124	09/20/2022
1,2,4-Trimethylbenzene	*	2.0		49.7	50.00	0	99.5	75	115	09/20/2022
1,2-Dibromo-3-chloropropane	*	5.0		47.6	50.00	0	95.2	71.9	119	09/20/2022
1,2-Dibromoethane	*	2.0		51.0	50.00	0	102.0	83.6	110	09/20/2022
1,2-Dichlorobenzene	*	2.0		50.6	50.00	0	101.1	72.1	113	09/20/2022
1,2-Dichloroethane	*	2.0		49.4	50.00	0	98.8	72.3	117	09/20/2022
1,2-Dichloropropane	*	2.0		54.6	50.00	0	109.2	76.5	119	09/20/2022
1,3,5-Trimethylbenzene	*	2.0		50.1	50.00	0	100.2	75.2	117	09/20/2022
1,3-Dichlorobenzene	*	2.0		51.3	50.00	0	102.7	75.2	115	09/20/2022
1,3-Dichloropropane	*	2.0		51.9	50.00	0	103.7	80.9	110	09/20/2022
1,4-Dichlorobenzene	*	2.0		53.1	50.00	0	106.3	73.9	112	09/20/2022
1-Chlorobutane	*	5.0		56.7	50.00	0	113.4	74.9	130	09/20/2022
2,2-Dichloropropane	*	2.0		43.2	50.00	0	86.5	66.5	138	09/20/2022
2-Butanone	*	10.0		127	125.0	0	101.4	68.8	134	09/20/2022
2-Chloroethyl vinyl ether	*	5.0		50.7	50.00	0	101.4	17.8	163	09/20/2022
2-Chlorotoluene	*	2.0		49.0	50.00	0	98.1	74.9	115	09/20/2022
2-Hexanone	*	10.0		125	125.0	0	99.7	73.2	117	09/20/2022
2-Nitropropane	*	10.0		569	500.0	0	113.7	67.1	140	09/20/2022
4-Chlorotoluene	*	2.0		51.0	50.00	0	102.0	75.7	113	09/20/2022
4-Methyl-2-pentanone	*	10.0		130	125.0	0	104.3	77	113	09/20/2022
Acetone	*	10.0		131	125.0	0	104.9	61.4	130	09/20/2022
Acetonitrile	*	10.0		584	500.0	0	116.7	68.8	136	09/20/2022
Acrolein	*	20.0		452	500.0	0	90.4	28.4	168	09/20/2022
Acrylonitrile	*	5.0		56.8	50.00	0	113.7	77.9	124	09/20/2022



Quality Control Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091260

Client Project: Ameren Huster Road

Report Date: 26-Sep-22

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 197856 **SampType:** LCS

Units µg/L

SampID: LCS-AM220920A-2

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Allyl chloride	*	5.0		54.7	50.00	0	109.4	75.8	130	09/20/2022
Benzene	*	0.5		54.4	50.00	0	108.9	78.5	119	09/20/2022
Bromobenzene	*	2.0		51.3	50.00	0	102.7	77.5	113	09/20/2022
Bromochloromethane	*	2.0		54.2	50.00	0	108.4	71.5	123	09/20/2022
Bromodichloromethane	*	2.0		52.9	50.00	0	105.8	75.7	123	09/20/2022
Bromoform	*	2.0		50.6	50.00	0	101.2	78.9	121	09/20/2022
Bromomethane	*	5.0		58.0	50.00	0	116.1	30.5	192	09/20/2022
Carbon disulfide	*	2.0		56.3	50.00	0	112.6	66.7	121	09/20/2022
Carbon tetrachloride	*	2.0		55.2	50.00	0	110.5	70.9	127	09/20/2022
Chlorobenzene	*	2.0		51.3	50.00	0	102.6	80	111	09/20/2022
Chloroethane	*	2.0		63.1	50.00	0	126.2	69.6	135	09/20/2022
Chloroform	*	2.0		52.8	50.00	0	105.5	76.2	120	09/20/2022
Chloromethane	*	5.0		51.3	50.00	0	102.6	50.9	138	09/20/2022
Chloroprene	*	5.0		54.1	50.00	0	108.2	68.4	127	09/20/2022
cis-1,2-Dichloroethene	*	2.0		56.2	50.00	0	112.3	79.5	121	09/20/2022
cis-1,3-Dichloropropene	*	2.0		52.3	50.00	0	104.6	79.8	123	09/20/2022
cis-1,4-Dichloro-2-butene	*	2.0		46.0	50.00	0	92.0	64.6	130	09/20/2022
Cyclohexanone	*	20.0		521	500.0	0	104.2	70.5	114	09/20/2022
Dibromochloromethane	*	2.0		51.4	50.00	0	102.8	84.5	114	09/20/2022
Dibromomethane	*	2.0		53.8	50.00	0	107.6	76	119	09/20/2022
Dichlorodifluoromethane	*	2.0		46.3	50.00	0	92.5	46.6	142	09/20/2022
Ethyl acetate	*	10.0		51.7	50.00	0	103.4	70.3	115	09/20/2022
Ethyl ether	*	5.0		54.0	50.00	0	108.0	74.6	120	09/20/2022
Ethyl methacrylate	*	5.0		51.0	50.00	0	101.9	81.4	116	09/20/2022
Ethylbenzene	*	2.0		52.4	50.00	0	104.8	78.2	114	09/20/2022
Hexachlorobutadiene	*	5.0		53.0	50.00	0	106.0	73.9	129	09/20/2022
Hexachloroethane	*	5.0		53.4	50.00	0	106.8	78.3	123	09/20/2022
Iodomethane	*	5.0		57.3	50.00	0	114.6	50	151	09/20/2022
Isopropylbenzene	*	2.0		52.9	50.00	0	105.8	79.3	115	09/20/2022
m,p-Xylenes	*	2.0		104	100.0	0	104.2	77.2	116	09/20/2022
Methacrylonitrile	*	5.0		54.8	50.00	0	109.5	73.9	127	09/20/2022
Methyl Methacrylate	*	5.0		50.3	50.00	0	100.7	70.7	129	09/20/2022
Methyl tert-butyl ether	*	2.0		49.4	50.00	0	98.9	80.3	122	09/20/2022
Methylacrylate	*	5.0		53.8	50.00	0	107.7	75.2	124	09/20/2022
Methylene chloride	*	2.0		55.1	50.00	0	110.2	71.8	115	09/20/2022
Naphthalene	*	5.0		50.8	50.00	0	101.6	75.6	121	09/20/2022



Quality Control Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091260

Client Project: Ameren Huster Road

Report Date: 26-Sep-22

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 197856		SampType: LCS		Units µg/L							
SampID: LCS-AM220920A-2											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
n-Butyl acetate	*	2.0		48.1	50.00	0	96.2	72.4	118	09/20/2022	
n-Butylbenzene	*	2.0		50.7	50.00	0	101.4	70.8	118	09/20/2022	
n-Heptane	*	5.0		56.3	50.00	0	112.7	50.4	143	09/20/2022	
n-Hexane	*	5.0		50.7	50.00	0	101.5	60.6	139	09/20/2022	
Nitrobenzene	*	50.0		566	500.0	0	113.2	49.4	129	09/20/2022	
n-Propylbenzene	*	2.0		51.1	50.00	0	102.3	74	119	09/20/2022	
o-Xylene	*	2.0		52.5	50.00	0	105.0	79.2	112	09/20/2022	
Pentachloroethane	*	5.0		51.0	50.00	0	102.1	71.8	124	09/20/2022	
p-Isopropyltoluene	*	2.0		50.0	50.00	0	100.1	74.4	119	09/20/2022	
Propionitrile	*	10.0		579	500.0	0	115.8	76.2	127	09/20/2022	
sec-Butylbenzene	*	2.0		51.9	50.00	0	103.8	74.4	119	09/20/2022	
Styrene	*	2.0		54.2	50.00	0	108.4	80.4	117	09/20/2022	
tert-Butylbenzene	*	2.0		49.3	50.00	0	98.7	74	115	09/20/2022	
Tetrachloroethene	*	0.5		52.8	50.00	0	105.6	70.1	120	09/20/2022	
Tetrahydrofuran	*	5.0		48.6	50.00	0	97.1	63.5	122	09/20/2022	
Toluene	*	2.0		52.3	50.00	0	104.6	78.6	112	09/20/2022	
trans-1,2-Dichloroethene	*	2.0		55.2	50.00	0	110.5	75.7	130	09/20/2022	
trans-1,3-Dichloropropene	*	2.0		47.6	50.00	0	95.1	80.3	116	09/20/2022	
trans-1,4-Dichloro-2-butene	*	2.0		45.6	50.00	0	91.2	65.5	124	09/20/2022	
Trichloroethene	*	2.0		53.9	50.00	0	107.8	76.2	121	09/20/2022	
Trichlorofluoromethane	*	5.0		55.6	50.00	0	111.3	71.1	131	09/20/2022	
Vinyl acetate	*	5.0		52.4	50.00	0	104.8	79.8	129	09/20/2022	
Vinyl chloride	*	2.0		56.8	50.00	0	113.6	58.6	141	09/20/2022	
Surr: 1,2-Dichloroethane-d4	*			47.1	50.00		94.2	80	120	09/20/2022	
Surr: 4-Bromofluorobenzene	*			46.7	50.00		93.5	80	120	09/20/2022	
Surr: Dibromofluoromethane	*			50.0	50.00		100.0	80	120	09/20/2022	
Surr: Toluene-d8	*			48.8	50.00		97.5	80	120	09/20/2022	



Quality Control Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091260

Client Project: Ameren Huster Road

Report Date: 26-Sep-22

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	SampType:	LCSD	Units µg/L			RPD Limit: 15.4					
SampID: LCSD-AM220920A-2											Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
1,1,1,2-Tetrachloroethane	*	2.0		51.5	50.00	0	102.9	52.80	2.55	09/20/2022	
1,1,1-Trichloroethane	*	2.0		49.5	50.00	0	99.0	52.27	5.42	09/20/2022	
1,1,2,2-Tetrachloroethane	*	2.0		49.2	50.00	0	98.5	49.79	1.09	09/20/2022	
1,1,2-Trichloro-1,2,2-trifluoroethane	*	5.0		53.9	50.00	0	107.7	56.92	5.52	09/20/2022	
1,1,2-Trichloroethane	*	0.5		49.9	50.00	0	99.8	50.58	1.39	09/20/2022	
1,1-Dichloro-2-propanone	*	30.0		122	125.0	0	97.3	124.1	2.02	09/20/2022	
1,1-Dichloroethane	*	2.0		52.6	50.00	0	105.2	54.49	3.57	09/20/2022	
1,1-Dichloroethene	*	2.0		52.3	50.00	0	104.6	55.40	5.72	09/20/2022	
1,1-Dichloropropene	*	2.0		54.3	50.00	0	108.6	57.27	5.29	09/20/2022	
1,2,3-Trichlorobenzene	*	2.0		50.8	50.00	0	101.7	50.76	0.16	09/20/2022	
1,2,3-Trichloropropane	*	2.0		47.3	50.00	0	94.6	47.80	1.03	09/20/2022	
1,2,3-Trimethylbenzene	*	2.0		49.6	50.00	0	99.2	50.64	2.08	09/20/2022	
1,2,4-Trichlorobenzene	*	2.0		51.5	50.00	0	103.0	51.83	0.62	09/20/2022	
1,2,4-Trimethylbenzene	*	2.0		48.5	50.00	0	97.1	49.74	2.46	09/20/2022	
1,2-Dibromo-3-chloropropane	*	5.0		47.0	50.00	0	93.9	47.58	1.33	09/20/2022	
1,2-Dibromoethane	*	2.0		50.1	50.00	0	100.1	51.01	1.88	09/20/2022	
1,2-Dichlorobenzene	*	2.0		49.9	50.00	0	99.8	50.55	1.25	09/20/2022	
1,2-Dichloroethane	*	2.0		48.3	50.00	0	96.6	49.42	2.27	09/20/2022	
1,2-Dichloropropane	*	2.0		54.0	50.00	0	108.0	54.60	1.12	09/20/2022	
1,3,5-Trimethylbenzene	*	2.0		48.9	50.00	0	97.8	50.12	2.48	09/20/2022	
1,3-Dichlorobenzene	*	2.0		50.5	50.00	0	101.1	51.34	1.57	09/20/2022	
1,3-Dichloropropane	*	2.0		51.3	50.00	0	102.5	51.86	1.16	09/20/2022	
1,4-Dichlorobenzene	*	2.0		52.6	50.00	0	105.2	53.14	1.06	09/20/2022	
1-Chlorobutane	*	5.0		53.9	50.00	0	107.9	56.71	5.03	09/20/2022	
2,2-Dichloropropane	*	2.0		41.6	50.00	0	83.3	43.23	3.77	09/20/2022	
2-Butanone	*	10.0		124	125.0	0	99.6	126.7	1.76	09/20/2022	
2-Chloroethyl vinyl ether	*	5.0		49.9	50.00	0	99.8	50.71	1.65	09/20/2022	
2-Chlorotoluene	*	2.0		47.8	50.00	0	95.6	49.04	2.52	09/20/2022	
2-Hexanone	*	10.0		120	125.0	0	96.4	124.6	3.34	09/20/2022	
2-Nitropropane	*	10.0		557	500.0	0	111.4	568.6	2.03	09/20/2022	
4-Chlorotoluene	*	2.0		50.0	50.00	0	99.9	51.00	2.04	09/20/2022	
4-Methyl-2-pentanone	*	10.0		128	125.0	0	102.7	130.4	1.58	09/20/2022	
Acetone	*	10.0		127	125.0	0	101.7	131.1	3.12	09/20/2022	
Acetonitrile	*	10.0		565	500.0	0	113.0	583.6	3.21	09/20/2022	
Acrolein	*	20.0		453	500.0	0	90.7	452.1	0.30	09/20/2022	
Acrylonitrile	*	5.0		56.2	50.00	0	112.4	56.85	1.13	09/20/2022	



Quality Control Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091260

Client Project: Ameren Huster Road

Report Date: 26-Sep-22

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	197856	SampType:	LCSD	Units µg/L				RPD Limit: 15.4			Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Analyzed	
Allyl chloride	*	5.0		52.9	50.00	0	105.8	54.72	3.42	09/20/2022	
Benzene	*	0.5		52.7	50.00	0	105.4	54.45	3.30	09/20/2022	
Bromobenzene	*	2.0		50.6	50.00	0	101.2	51.34	1.43	09/20/2022	
Bromochloromethane	*	2.0		53.6	50.00	0	107.1	54.21	1.19	09/20/2022	
Bromodichloromethane	*	2.0		52.4	50.00	0	104.7	52.89	1.01	09/20/2022	
Bromoform	*	2.0		50.3	50.00	0	100.5	50.62	0.71	09/20/2022	
Bromomethane	*	5.0		60.9	50.00	0	121.8	58.03	4.86	09/20/2022	
Carbon disulfide	*	2.0		53.4	50.00	0	106.8	56.28	5.23	09/20/2022	
Carbon tetrachloride	*	2.0		52.4	50.00	0	104.7	55.24	5.37	09/20/2022	
Chlorobenzene	*	2.0		50.0	50.00	0	100.1	51.32	2.53	09/20/2022	
Chloroethane	*	2.0		59.9	50.00	0	119.9	63.08	5.12	09/20/2022	
Chloroform	*	2.0		51.1	50.00	0	102.2	52.77	3.25	09/20/2022	
Chloromethane	*	5.0		49.9	50.00	0	99.8	51.29	2.75	09/20/2022	
Chloroprene	*	5.0		51.8	50.00	0	103.7	54.08	4.25	09/20/2022	
cis-1,2-Dichloroethene	*	2.0		54.5	50.00	0	109.0	56.15	3.02	09/20/2022	
cis-1,3-Dichloropropene	*	2.0		51.5	50.00	0	103.0	52.28	1.48	09/20/2022	
cis-1,4-Dichloro-2-butene	*	2.0		45.5	50.00	0	91.0	45.98	1.05	09/20/2022	
Cyclohexanone	*	20.0		510	500.0	0	101.9	520.8	2.17	09/20/2022	
Dibromochloromethane	*	2.0		50.5	50.00	0	101.0	51.38	1.77	09/20/2022	
Dibromomethane	*	2.0		53.7	50.00	0	107.4	53.79	0.17	09/20/2022	
Dichlorodifluoromethane	*	2.0		45.5	50.00	0	91.0	46.26	1.70	09/20/2022	
Ethyl acetate	*	10.0		48.9	50.00	0	97.7	51.70	5.63	09/20/2022	
Ethyl ether	*	5.0		53.4	50.00	0	106.7	54.02	1.23	09/20/2022	
Ethyl methacrylate	*	5.0		50.3	50.00	0	100.6	50.97	1.28	09/20/2022	
Ethylbenzene	*	2.0		50.4	50.00	0	100.8	52.39	3.83	09/20/2022	
Hexachlorobutadiene	*	5.0		52.0	50.00	0	103.9	53.01	2.00	09/20/2022	
Hexachloroethane	*	5.0		51.9	50.00	0	103.8	53.39	2.85	09/20/2022	
Iodomethane	*	5.0		60.0	50.00	0	119.9	57.32	4.52	09/20/2022	
Isopropylbenzene	*	2.0		51.1	50.00	0	102.1	52.92	3.56	09/20/2022	
m,p-Xylenes	*	2.0		101	100.0	0	100.5	104.2	3.61	09/20/2022	
Methacrylonitrile	*	5.0		54.4	50.00	0	108.8	54.76	0.66	09/20/2022	
Methyl Methacrylate	*	5.0		50.2	50.00	0	100.5	50.33	0.16	09/20/2022	
Methyl tert-butyl ether	*	2.0		50.4	50.00	0	100.8	49.45	1.88	09/20/2022	
Methylacrylate	*	5.0		53.4	50.00	0	106.9	53.83	0.73	09/20/2022	
Methylene chloride	*	2.0		54.9	50.00	0	109.7	55.11	0.45	09/20/2022	
Naphthalene	*	5.0		50.5	50.00	0	100.9	50.80	0.67	09/20/2022	



Quality Control Results

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091260

Client Project: Ameren Huster Road

Report Date: 26-Sep-22

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	197856	SampType:	LCSD	Units µg/L				RPD Limit: 15.4			Date Analyzed
SampID:	LCSD-AM220920A-2										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
n-Butyl acetate	*	2.0		47.5	50.00	0	95.1	48.12	1.21	09/20/2022	
n-Butylbenzene	*	2.0		49.4	50.00	0	98.8	50.71	2.58	09/20/2022	
n-Heptane	*	5.0		54.4	50.00	0	108.8	56.34	3.49	09/20/2022	
n-Hexane	*	5.0		47.9	50.00	0	95.8	50.74	5.78	09/20/2022	
Nitrobenzene	*	50.0		553	500.0	0	110.7	566.2	2.28	09/20/2022	
n-Propylbenzene	*	2.0		49.8	50.00	0	99.5	51.14	2.72	09/20/2022	
o-Xylene	*	2.0		51.1	50.00	0	102.3	52.50	2.64	09/20/2022	
Pentachloroethane	*	5.0		50.8	50.00	0	101.6	51.05	0.49	09/20/2022	
p-Isopropyltoluene	*	2.0		48.8	50.00	0	97.6	50.04	2.53	09/20/2022	
Propionitrile	*	10.0		562	500.0	0	112.4	579.1	2.99	09/20/2022	
sec-Butylbenzene	*	2.0		50.1	50.00	0	100.2	51.90	3.51	09/20/2022	
Styrene	*	2.0		53.1	50.00	0	106.2	54.22	2.07	09/20/2022	
tert-Butylbenzene	*	2.0		48.0	50.00	0	95.9	49.33	2.82	09/20/2022	
Tetrachloroethene	*	0.5		49.9	50.00	0	99.8	52.78	5.63	09/20/2022	
Tetrahydrofuran	*	5.0		49.5	50.00	0	99.1	48.56	2.00	09/20/2022	
Toluene	*	2.0		50.8	50.00	0	101.7	52.29	2.81	09/20/2022	
trans-1,2-Dichloroethene	*	2.0		53.2	50.00	0	106.5	55.25	3.72	09/20/2022	
trans-1,3-Dichloropropene	*	2.0		47.6	50.00	0	95.1	47.55	0.04	09/20/2022	
trans-1,4-Dichloro-2-butene	*	2.0		44.7	50.00	0	89.5	45.62	1.95	09/20/2022	
Trichloroethene	*	2.0		51.8	50.00	0	103.6	53.91	4.03	09/20/2022	
Trichlorofluoromethane	*	5.0		53.8	50.00	0	107.5	55.63	3.40	09/20/2022	
Vinyl acetate	*	5.0		52.0	50.00	0	104.1	52.40	0.71	09/20/2022	
Vinyl chloride	*	2.0		54.9	50.00	0	109.7	56.79	3.46	09/20/2022	
Surr: 1,2-Dichloroethane-d4	*			47.4	50.00		94.8			09/20/2022	
Surr: 4-Bromofluorobenzene	*			46.9	50.00		93.8			09/20/2022	
Surr: Dibromofluoromethane	*			49.7	50.00		99.4			09/20/2022	
Surr: Toluene-d8	*			48.4	50.00		96.8			09/20/2022	



Receiving Check List

<http://www.teklabinc.com/>

Client: Loureiro Engineering Associates, LLC

Work Order: 22091260

Client Project: Ameren Huster Road

Report Date: 26-Sep-22

Carrier: Troy W. Eppinger

Received By: PRY

Completed by:

Reviewed by:

On:

20-Sep-22

Ellie Hopkins

20-Sep-22

Elizabeth A. Hurley

Pages to follow: Chain of custody

Extra pages included

- | | | | | |
|---|---|---|--|----------------------------------|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> | Temp °C 3.4 |
| Type of thermal preservation? | None <input type="checkbox"/> | Ice <input checked="" type="checkbox"/> | Blue Ice <input type="checkbox"/> | Dry Ice <input type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Reported field parameters measured: | Field <input type="checkbox"/> | Lab <input type="checkbox"/> | NA <input checked="" type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

- | | | | |
|---|---|-----------------------------|---|
| Water – at least one vial per sample has zero headspace? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | No VOA vials <input type="checkbox"/> |
| Water - TOX containers have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No TOX containers <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| NPDES/CWA TCN interferences checked/treated in the field? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |

Any No responses must be detailed below or on the COC.

